ALTERNATIVE - Spleen Immunophenotyping ALTMGP_IMM_001

Parameters and Metadata

ALTERNATIVE - Total T cells - % of CD45+ ALTMGP_IMM_001_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - total_t_cells_of_cd45

ALTERNATIVE - Ly6C+ CD5+ T cells - % of CD5+ T cells ALTMGP_IMM_002_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - ly6c_cd5_t_cells_of_cd5_t_cells

ALTERNATIVE - Total ab T cells - % of total T cells ALTMGP_IMM_003_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - total_ab_t_cells_of_total_t_cells

ALTERNATIVE - Total CD4+ T cells - % of ab T cells ALTMGP_IMM_004_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - total_cd4_t_cells_of_ab_t_cells

ALTERNATIVE - CD4+ T helper cells - % of CD4+ ALTMGP_IMM_005_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - cd4_t_helper_cells_of_cd4

ALTERNATIVE - Effector CD4+ T helper cells - % of CD4+ T helper cells ALTMGP_IMM_006_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - effector_cd4_t_helper_cells_of_cd4_t_helper_cells

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ALTERNATIVE - Resting CD4+ T helper cells - % of CD4+ T helper cells ALTMGP_IMM_007_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - resting_cd4_t_helper_cells_of_cd4_t_helper_cells

---

ALTERNATIVE - KLRG1+ CD4+ T helper cells - % of CD4+ T helper cells ALTMGP_IMM_008_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - klrg1_cd4_t_helper_cells_of_cd4_t_helper_cells

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ALTERNATIVE - Total Treg cells - % of CD4+ ALTMGP_IMM_009_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - total_treg_cells_of_cd4

ALTERNATIVE - Effector Treg cells - % of Treg ALTMGP_IMM_010_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - effector_treg_cells_of_treg

ALTERNATIVE - Resting Treg cells - % of Treg ALTMGP_IMM_011_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - resting_treg_cells_of_treg

ALTERNATIVE - KLRG1+ Treg cells - % of Treg ALTMGP_IMM_012_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - klrg1_treg_cells_of_treg

ALTERNATIVE - Total CD8+ T cells - % of ab T cells ALTMGP_IMM_013_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - total_cd8_t_cells_of_ab_t_cells

ALTERNATIVE - Effector CD8+ T cells - % of CD8+ ALTMGP_IMM_014_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - effector_cd8_t_cells_of_cd8

ALTERNATIVE - Resting CD8+ T cells - % of CD8+ ALTMGP_IMM_015_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - resting_cd8_t_cells_of_cd8

ALTERNATIVE - Naive CD8+ T cells - % of CD8+ ALTMGP_IMM_016_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - naive_cd8_t_cells_of_cd8

ALTERNATIVE - KLRG1+ CD8+ T cells - % of CD8+ ALTMGP_IMM_017_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - klrg1_cd8_t_cells_of_cd8

ALTERNATIVE - Total gd T cells - % of total T cells ALTMGP_IMM_018_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - total_gd_t_cells_of_total_t_cells

ALTERNATIVE - CD5+ gd T cells - % of gd T cells ALTMGP_IMM_019_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - cd5_gd_t_cells_of_gd_t_cells

ALTERNATIVE - Effector gd T cells - % of gd T cells ALTMGP_IMM_020_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - effector_gd_t_cells_of_gd_t_cells

ALTERNATIVE - Resting gd T cells - % of gd T cells ALTMGP_IMM_021_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - resting_gd_t_cells_of_gd_t_cells

ALTERNATIVE - KLRG1+ gd T cells - % of gd T cells ALTMGP_IMM_022_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - klrg1_gd_t_cells_of_gd_t_cells

ALTERNATIVE - Total NKT cells - % of CD45+ ALTMGP_IMM_023_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - total_nkt_cells_of_cd45

ALTERNATIVE - Ly6C+ NKT cells - % of NKT cells ALTMGP_IMM_024_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - ly6c_nkt_cells_of_nkt_cells

ALTERNATIVE - Total CD4- NKT cells - % of NKT cells ALT

MGP_IMM_025_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - total_cd4_nkt_cells_of_nkt_cells

ALTERNATIVE - Effector CD4- NKT cells - % of CD4- NKT cells ALTMGP_IMM_026_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - effector_cd4_nkt_cells_of_cd4_nkt_cells

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ALTERNATIVE - Resting CD4- NKT cells - % of CD4- NKT cells ALTMGP_IMM_027_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - resting_cd4_nkt_cells_of_cd4_nkt_cells

---

ALTERNATIVE - KLRG1+ CD4- NKT cells - % of CD4- NKT cells ALTMGP_IMM_028_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - klrg1_cd4_nkt_cells_of_cd4_nkt_cells

---

ALTERNATIVE - Total CD4+ NKT cells - % of NKT cells ALTMGP_IMM_029_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - total_cd4_nkt_cells_of_nkt_cells

ALTERNATIVE - Effector CD4+ NKT cells - % of CD4+ NKT cells ALTMGP_IMM_030_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - effector_cd4_nkt_cells_of_cd4_nkt_cells

---

ALTERNATIVE - Resting CD4+ NKT cells - % of CD4+ NKT cells ALTMGP_IMM_031_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - resting_cd4_nkt_cells_of_cd4_nkt_cells

---

ALTERNATIVE - KLRG1+ CD4+ NKT cells - % of CD4+ NKT cells ALTMGP_IMM_032_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - klrg1_cd4_nkt_cells_of_cd4_nkt_cells

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ALTERNATIVE - Total NK cells - % of CD45+ ALTMGP_IMM_033_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - total_nk_cells_of_cd45

ALTERNATIVE - Effector NK cells - % of NK cells ALTMGP_IMM_034_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - effector_nk_cells_of_nk_cells

ALTERNATIVE - Resting NK cells - % of NK cells ALTMGP_IMM_035_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - resting_nk_cells_of_nk_cells

ALTERNATIVE - KLRG1+ NK cells - % of NK cells ALTMGP_IMM_036_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - klrg1_nk_cells_of_nk_cells

ALTERNATIVE - Immature NK cells - % of NK cells ALTMGP_IMM_037_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - immature_nk_cells_of_nk_cells

ALTERNATIVE - Ly6C+ immature NK cells - % of immature NK cells ALTMGP_IMM_038_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - ly6c_immature_nk_cells_of_immature_nk_cells

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ALTERNATIVE - Mature NK cells - % of NK cellls ALTMGP_IMM_039_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - mature_nk_cells_of_nk_cellls

ALTERNATIVE - Ly6C+ mature NK cells - % of mature NK cells ALTMGP_IMM_040_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - ly6c_mature_nk_cells_of_mature_nk_cells

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ALTERNATIVE - Total B cells - % of CD45+ ALTMGP_IMM_041_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - total_b_cells_of_cd45

ALTERNATIVE - B1a cells - % of B cells ALTMGP_IMM_042_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - b1a_cells_of_b_cells

ALTERNATIVE - Total B2 cells - % of B cells ALTMGP_IMM_043_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - total_b2_cells_of_b_cells

ALTERNATIVE - Marginal zone B cells - % of B2 cells ALTMGP_IMM_044_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - marginal_zone_b_cells_of_b2_cells

ALTERNATIVE - Marginal zone precursor B cells - % of B2 cells ALTMGP_IMM_045_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - marginal_zone_precursor_b_cells_of_b2_cells

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ALTERNATIVE - Transitional 1 B cells - % of B2 cells ALTMGP_IMM_046_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - transitional_1_b_cells_of_b2_cells

---

ALTERNATIVE - Transitional 2 B cells - % of B2 cells ALTMGP_IMM_047_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - transitional_2_b_cells_of_b2_cells

---

ALTERNATIVE - Follicular B cells - % of B2 cells ALTMGP_IMM_048_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - follicular_b_cells_of_b2_cells

ALTERNATIVE - Germinal centre B cells - % of B2 cells ALTMGP_IMM_049_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - germinal_centre_b_cells_of_b2_cells

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ALTERNATIVE - Early germinal centre B cells - % of GC cells ALTMGP_IMM_050_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - early_germinal_centre_b_cells_of_gc_cells

---

ALTERNATIVE - Late germinal centre B cells - % of GC cells ALTMGP_IMM_051_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - late_germinal_centre_b_cells_of_gc_cells

---

ALTERNATIVE - Plasma cells - % of B2 cells ALTMGP_IMM_052_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - plasma_cells_of_b2_cells

ALTERNATIVE - Memory B cells - % of B2 cells ALTMGP_IMM_053_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - memory_b_cells_of_b2_cells

ALTERNATIVE - B2 marginal zone + precursor cells - % of B2 cells ALTMGP_IMM_054_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - b2_marginal_zone_precursor_cells_of_b2_cells

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ALTERNATIVE - B2 t1 + t2 cells - % of B2 cells ALTMGP_IMM_055_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - b2_t1_t2_cells_of_b2_cells

ALTERNATIVE - B2 t3 + f1 + f2 + gc cells - % of B2 cells ALTMGP_IMM_056_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - b2_t3_f1_f2_gc_cells_of_b2_cells

ALTERNATIVE - Total myeloid cells - % of CD45+ ALTMGP_IMM_057_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - total_myeloid_cells_of_cd45

ALTERNATIVE - Macrophages - % of myeloid cells ALTMGP_IMM_058_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - macrophages_of_myeloid_cells

ALTERNATIVE - Granulocytes + monocytes - % of myeloid cells ALTMGP_IMM_059_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - granulocytes_monocytes_of_myeloid_cells

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ALTERNATIVE - Granulocytes - % of myeloid cells ALTMGP_IMM_060_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - granulocytes_of_myeloid_cells

ALTERNATIVE - Monocytes - % of myeloid cells ALTMGP_IMM_061_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - monocytes_of_myeloid_cells

ALTERNATIVE - Eosinophils - % of myeloid cells ALTMGP_IMM_062_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - eosinophils_of_myeloid_cells

ALTERNATIVE - Total DC - % of myeloid cells ALTMGP_IMM_063_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - total_dc_of_myeloid_cells

ALTERNATIVE - Plasmacytoid DC - % of DC ALTMGP_IMM_064_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - plasmacytoid_dc_of_dc

ALTERNATIVE - Conventional DC (cDC) - % of DC ALTMGP_IMM_065_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - conventional_dc_cdc_of_dc

ALTERNATIVE - CD11b-high cDC - % of cDC ALTMGP_IMM_066_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - cd11b_high_cdc_of_cdc

ALTERNATIVE - CD11b-low cDC - % of cDC ALTMGP_IMM_067_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - cd11b_low_cdc_of_cdc

ALTERNATIVE - CD103+ CD11b-low cDC - % of CD11b-low cDC ALTMGP_IMM_068_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - cd103_cd11b_low_cdc_of_cd11b_low_cdc

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ALTERNATIVE - Ly6C+ CD5+ T cells - % of lymphocytes ALTMGP_IMM_069_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - ly6c_cd5_t_cells_of_lymphocytes

ALTERNATIVE - Total ab T cells - % of CD45+ ALTMGP_IMM_070_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - total_ab_t_cells_of_cd45

ALTERNATIVE - Total CD4+ T cells - % of CD45+ ALTMGP_IMM_071_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - total_cd4_t_cells_of_cd45

ALTERNATIVE - CD4+ T helper cells - % of CD45+ ALTMGP_IMM_072_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - cd4_t_helper_cells_of_cd45

ALTERNATIVE - Effector CD4+ T helper cells - % of CD45+

ALTMGP_IMM_073_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - effector_cd4_t_helper_cells_of_cd45

ALTERNATIVE - Resting CD4+ T helper cells - % of CD45+

ALTMGP_IMM_074_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - resting_cd4_t_helper_cells_of_cd45

ALTERNATIVE - KLRG1+ CD4+ T helper cells - % of CD45+ ALTMGP_IMM_075_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - klrg1_cd4_t_helper_cells_of_cd45

ALTERNATIVE - Total Treg cells - % of CD45+ ALTMGP_IMM_076_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - total_treg_cells_of_cd45

ALTERNATIVE - Effector Treg cells - % of CD45+ ALTMGP_IMM_077_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - effector_treg_cells_of_cd45

ALTERNATIVE - Resting Treg cells - % of CD45+ ALTMGP_IMM_078_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - resting_treg_cells_of_cd45

ALTERNATIVE - KLRG1+ Treg cells - % of CD45+ ALTMGP_IMM_079_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - klrg1_treg_cells_of_cd45

ALTERNATIVE - Total CD8+ T cells - % of CD45+ ALTMGP_IMM_080_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - total_cd8_t_cells_of_cd45

ALTERNATIVE - Effector CD8+ T cells - % of CD45+ ALTMGP_IMM_081_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - effector_cd8_t_cells_of_cd45

ALTERNATIVE - Resting CD8+ T cells - % of CD45+ ALTMGP_IMM_082_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - resting_cd8_t_cells_of_cd45

ALTERNATIVE - Naive CD8+ T cells - % of CD45+ ALTMGP_IMM_083_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - naive_cd8_t_cells_of_cd45

ALTERNATIVE - KLRG1+ CD8+ T cells - % of CD45+ ALTMGP_IMM_084_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - klrg1_cd8_t_cells_of_cd45

ALTERNATIVE - Total gd T cells - % of CD45+ ALTMGP_IMM_085_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - total_gd_t_cells_of_cd45

ALTERNATIVE - CD5+ gd T cells - % of CD45+ ALTMGP_IMM_086_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - cd5_gd_t_cells_of_cd45

ALTERNATIVE - Effector gd cells - % of CD45+ ALTMGP_IMM_087_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - effector_gd_cells_of_cd45

ALTERNATIVE - Resting gd T cells - % of CD45+ ALTMGP_IMM_088_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - resting_gd_t_cells_of_cd45

ALTERNATIVE - KLRG1+ gd T cells - % of CD45+ ALTMGP_IMM_089_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - klrg1_gd_t_cells_of_cd45

ALTERNATIVE - Ly6C+ NKT cells - % of lymphocytes ALTMGP_IMM_090_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - ly6c_nkt_cells_of_lymphocytes

ALTERNATIVE - Total CD4- NKT cells - % of CD45+ ALTMGP_IMM_091_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - total_cd4_nkt_cells_of_cd45

ALTERNATIVE - Effector CD4- NKT cells - % of CD45+ ALTMGP_IMM_092_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - effector_cd4_nkt_cells_of_cd45

ALTERNATIVE - Resting CD4- NKT cells - % of CD45+ ALTMGP_IMM_093_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - resting_cd4_nkt_cells_of_cd45

ALTERNATIVE - KLRG1+ CD4- NKT cells - % of CD45+ ALTMGP_IMM_094_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - klrg1_cd4_nkt_cells_of_cd45

ALTERNATIVE - Total CD4+ NKT cells - % of CD45+ ALTMGP_IMM_095_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - total_cd4_nkt_cells_of_cd45

ALTERNATIVE - Effector CD4+ NKT cells - % of CD45+ ALT

MGP_IMM_096_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - effector_cd4_nkt_cells_of_cd45

ALTERNATIVE - Resting CD4+ NKT cells - % of CD45+ ALT

MGP_IMM_097_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - resting_cd4_nkt_cells_of_cd45

ALTERNATIVE - KLRG1+ CD4+ NKT cells - % of CD45+ ALTMGP_IMM_098_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - klrg1_cd4_nkt_cells_of_cd45

ALTERNATIVE - Effector NK cells - % of CD45+ ALTMGP_IMM_099_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - effector_nk_cells_of_cd45

ALTERNATIVE - Resting NK cells - % of CD45+ ALTMGP_IMM_100_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - resting_nk_cells_of_cd45

ALTERNATIVE - KLRG1+ NK cells - % of CD45+ ALTMGP_IMM_101_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - klrg1_nk_cells_of_cd45

ALTERNATIVE - Immature NK cells - % of lymphocytes ALTMGP_IMM_102_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - immature_nk_cells_of_lymphocytes

ALTERNATIVE - Ly6C+ immature NK cells - % of lymphocytes ALTMGP_IMM_103_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - ly6c_immature_nk_cells_of_lymphocytes

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ALTERNATIVE - Mature NK cells - % of lymphocytes ALTMGP_IMM_104_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - mature_nk_cells_of_lymphocytes

ALTERNATIVE - Ly6C+ mature NK cells - % of lymphocytes ALTMGP_IMM_105_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - ly6c_mature_nk_cells_of_lymphocytes

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ALTERNATIVE - B1a cells - % of CD45+ ALTMGP_IMM_106_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - b1a_cells_of_cd45

ALTERNATIVE - Total B2 cells - % of CD45+ ALTMGP_IMM_107_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - total_b2_cells_of_cd45

ALTERNATIVE - Marginal zone B cells - % of CD45+ ALTMGP_IMM_108_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - marginal_zone_b_cells_of_cd45

ALTERNATIVE - Marginal zone precursor B cells - % of CD45+ ALTMGP_IMM_109_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - marginal_zone_precursor_b_cells_of_cd45

ALTERNATIVE - Transitional 1 B cells - % of CD45+ ALTMGP_IMM_110_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - transitional_1_b_cells_of_cd45

ALTERNATIVE - Transitional 2 B cells - % of CD45+ ALTMGP_IMM_111_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - transitional_2_b_cells_of_cd45

ALTERNATIVE - Follicular B cells - % of CD45+ ALTMGP_IMM_112_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - follicular_b_cells_of_cd45

ALTERNATIVE - Germinal centre B cells - % of CD45+ ALTMGP_IMM_113_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - germinal_centre_b_cells_of_cd45

ALTERNATIVE - Early germinal centre B cells - % of CD45+ ALTMGP_IMM_114_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - early_germinal_centre_b_cells_of_cd45

ALTERNATIVE - Late germinal centre B cells - % of CD45+

ALTMGP_IMM_115_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - late_germinal_centre_b_cells_of_cd45

ALTERNATIVE - Plasma cells - % of CD45+ ALTMGP_IMM_116_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - plasma_cells_of_cd45

ALTERNATIVE - Memory B cells - % of CD45+ ALTMGP_IMM_117_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - memory_b_cells_of_cd45

ALTERNATIVE - B2 marginal zone + precursor cells - % of lymphocytes ALTMGP_IMM_118_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - b2_marginal_zone_precursor_cells_of_lymphocytes

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ALTERNATIVE - B2 t1 + t2 cells - % of lymphocytes ALTMGP_IMM_119_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - b2_t1_t2_cells_of_lymphocytes

ALTERNATIVE - B2 t3 + f1+ f2 + gc cells - % of lymphocytes ALTMGP_IMM_120_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - b2_t3_f1_f2_gc_cells_of_lymphocytes

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ALTERNATIVE - Macrophages - % of CD45+ ALTMGP_IMM_121_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - macrophages_of_cd45

ALTERNATIVE - Granulocytes + monocytes - % of CD45+

ALTMGP_IMM_122_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - granulocytes_monocytes_of_cd45

ALTERNATIVE - Granulocytes - % of CD45+ ALTMGP_IMM_123_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - granulocytes_of_cd45

ALTERNATIVE - Monocytes - % of CD45+ ALTMGP_IMM_124_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - monocytes_of_cd45

ALTERNATIVE - Eosinophils - % of CD45+ ALTMGP_IMM_125_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - eosinophils_of_cd45

ALTERNATIVE - Total DC - % of CD45+ ALTMGP_IMM_126_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - total_dc_of_cd45

ALTERNATIVE - Plasmacytoid DC - % of CD45+ ALTMGP_IMM_127_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - plasmacytoid_dc_of_cd45

ALTERNATIVE - Conventional DC (cDC) - % of CD45+ ALTMGP_IMM_128_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - conventional_dc_cdc_of_cd45

ALTERNATIVE - CD11b-high cDC - % of CD45+ ALTMGP_IMM_129_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - cd11b_high_cdc_of_cd45

ALTERNATIVE - CD11b-low cDC - % of CD45+ ALTMGP_IMM_130_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - cd11b_low_cdc_of_cd45

ALTERNATIVE - CD103+ CD11b-low cDC - % of CD45+ ALTMGP_IMM_131_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - cd103_cd11b_low_cdc_of_cd45

ALTERNATIVE - T cell panel CD45+ live cell count ALTMGP_IMM_132_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - t_cell_panel_cd45_live_cell_count

ALTERNATIVE - B cell panel CD45+ live cell count ALTMGP_IMM_133_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - b_cell_panel_cd45_live_cell_count

ALTERNATIVE - Myeloid panel CD45+ live cell count ALTMGP_IMM_134_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - myeloid_panel_cd45_live_cell_count

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ALTERNATIVE - Total T cells - cell count ALTMGP_IMM_135_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - total_t_cells_cell_count

ALTERNATIVE - Total CD5+ T cells - IMPC panel cell count ALTMGP_IMM_136_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - total_cd5_t_cells_impc_panel_cell_count

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ALTERNATIVE - Ly6C+ CD5+ T cells - IMPC panel cell count ALTMGP_IMM_137_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - ly6c_cd5_t_cells_impc_panel_cell_count

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ALTERNATIVE - Total ab T cells - cell count ALTMGP_IMM_138_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - total_ab_t_cells_cell_count

ALTERNATIVE - Total CD4+ T cells - cell count ALTMGP_IMM_139_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - total_cd4_t_cells_cell_count

ALTERNATIVE - CD4+ T helper cells - cell count ALTMGP_IMM_140_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - cd4_t_helper_cells_cell_count

ALTERNATIVE - Effector CD4+ T helper cells - cell count ALTMGP_IMM_141_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - effector_cd4_t_helper_cells_cell_count

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ALTERNATIVE - Resting CD4+ T helper cells - cell count ALTMGP_IMM_142_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - resting_cd4_t_helper_cells_cell_count

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ALTERNATIVE - KLRG1+ CD4+ T helper cells - cell count

ALTMGP_IMM_143_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - klrg1_cd4_t_helper_cells_cell_count

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ALTERNATIVE - Total Treg cells - cell count ALTMGP_IMM_144_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - total_treg_cells_cell_count

ALTERNATIVE - Effector Treg cells - cell count ALTMGP_IMM_145_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - effector_treg_cells_cell_count

ALTERNATIVE - Resting Treg cells - cell count ALTMGP_IMM_146_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - resting_treg_cells_cell_count

ALTERNATIVE - KLRG1+ Treg cells - cell count ALTMGP_IMM_147_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - klrg1_treg_cells_cell_count

ALTERNATIVE - Total CD8+ T cells - cell count ALTMGP_IMM_148_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - total_cd8_t_cells_cell_count

ALTERNATIVE - Effector CD8+ T cells - cell count ALTMGP_IMM_149_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - effector_cd8_t_cells_cell_count

ALTERNATIVE - Resting CD8+ T cells - cell count ALTMGP_IMM_150_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - resting_cd8_t_cells_cell_count

ALTERNATIVE - Naive CD8+ T cells - cell count ALTMGP_IMM_151_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - naive_cd8_t_cells_cell_count

ALTERNATIVE - KLRG1+ CD8+ T cells - cell count ALTMGP_IMM_152_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - klrg1_cd8_t_cells_cell_count

ALTERNATIVE - Total gd T cells - cell count ALTMGP_IMM_153_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - total_gd_t_cells_cell_count

ALTERNATIVE - CD5+ gd T cells - cell count ALTMGP_IMM_154_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - cd5_gd_t_cells_cell_count

ALTERNATIVE - Effector gd T cells - cell count ALTMGP_IMM_155_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - effector_gd_t_cells_cell_count

ALTERNATIVE - Resting gd T cells - cell count ALTMGP_IMM_156_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - resting_gd_t_cells_cell_count

ALTERNATIVE - KLRG1+ gd T cells - cell count ALTMGP_IMM_157_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - klrg1_gd_t_cells_cell_count

ALTERNATIVE - Total NKT cells - cell count ALTMGP_IMM_158_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - total_nkt_cells_cell_count

ALTERNATIVE - Total NKT cells - IMPC panel cell count ALTMGP_IMM_159_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - total_nkt_cells_impc_panel_cell_count

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ALTERNATIVE - Ly6C+ NKT cells - IMPC panel cell count

ALTMGP_IMM_160_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - ly6c_nkt_cells_impc_panel_cell_count

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ALTERNATIVE - Total CD4- NKT cells - cell count ALTMGP_IMM_161_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - total_cd4_nkt_cells_cell_count

ALTERNATIVE - Effector CD4- NKT cells - cell count ALTMGP_IMM_162_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - effector_cd4_nkt_cells_cell_count

ALTERNATIVE - Resting CD4- NKT cells - cell count ALTMGP_IMM_163_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - resting_cd4_nkt_cells_cell_count

ALTERNATIVE - KLRG1+ CD4- NKT cells - cell count ALTMGP_IMM_164_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - klrg1_cd4_nkt_cells_cell_count

ALTERNATIVE - Total CD4+ NKT cells - cell count ALTMGP_IMM_165_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - total_cd4_nkt_cells_cell_count

ALTERNATIVE - Effector CD4+ NKT cells - cell count ALTMGP_IMM_166_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - effector_cd4_nkt_cells_cell_count

ALTERNATIVE - Resting CD4+ NKT cells - cell count ALTMGP_IMM_167_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - resting_cd4_nkt_cells_cell_count

ALTERNATIVE - KLRG1+ CD4+ NKT cells - cell count ALTMGP_IMM_168_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - klrg1_cd4_nkt_cells_cell_count

ALTERNATIVE - Total NK cells - cell count ALTMGP_IMM_169_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - total_nk_cells_cell_count

ALTERNATIVE - Effector NK cells - cell count ALTMGP_IMM_170_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - effector_nk_cells_cell_count

ALTERNATIVE - Resting NK cells - cell count ALTMGP_IMM_171_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - resting_nk_cells_cell_count

ALTERNATIVE - KLRG1+ NK cells - cell count ALTMGP_IMM_172_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - klrg1_nk_cells_cell_count

ALTERNATIVE - Total NK cells - IMPC panel cell count ALTMGP_IMM_173_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - total_nk_cells_impc_panel_cell_count

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ALTERNATIVE - Immature NK cells - IMPC panel cell count ALTMGP_IMM_174_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - immature_nk_cells_impc_panel_cell_count

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ALTERNATIVE - Ly6C+ immature NK cells - IMPC panel cell count ALTMGP_IMM_175_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - ly6c_immature_nk_cells_impc_panel_cell_count

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ALTERNATIVE - Mature NK cells - IMPC panel cell count A

LTMGP_IMM_176_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - mature_nk_cells_impc_panel_cell_count

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ALTERNATIVE - Ly6C+ mature NK cells - IMPC panel cell count ALTMGP_IMM_177_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - ly6c_mature_nk_cells_impc_panel_cell_count

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ALTERNATIVE - Total B cells - cell count ALTMGP_IMM_178_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - total_b_cells_cell_count

ALTERNATIVE - B1a cells - cell count ALTMGP_IMM_179_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - b1a_cells_cell_count

ALTERNATIVE - Total B2 cells - cell count ALTMGP_IMM_180_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - total_b2_cells_cell_count

ALTERNATIVE - Marginal zone B cells - cell count ALTMGP_IMM_181_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - marginal_zone_b_cells_cell_count

ALTERNATIVE - Marginal zone precursor B cells - cell count ALTMGP_IMM_182_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - marginal_zone_precursor_b_cells_cell_count

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ALTERNATIVE - Transitional 1 B cells - cell count ALTMGP_IMM_183_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - transitional_1_b_cells_cell_count

ALTERNATIVE - Transitional 2 B cells - cell count ALTMGP_IMM_184_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - transitional_2_b_cells_cell_count

ALTERNATIVE - Follicular B cells - cell count ALTMGP_IMM_185_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - follicular_b_cells_cell_count

ALTERNATIVE - Germinal centre B cells - cell count ALTMGP_IMM_186_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - germinal_centre_b_cells_cell_count

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ALTERNATIVE - Early germinal centre B cells - cell count

ALTMGP_IMM_187_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - early_germinal_centre_b_cells_cell_count

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ALTERNATIVE - Late germinal centre B cells - cell count ALTMGP_IMM_188_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - late_germinal_centre_b_cells_cell_count

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ALTERNATIVE - Plasma cells - cell count ALTMGP_IMM_189_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - plasma_cells_cell_count

ALTERNATIVE - Memory B cells - cell count ALTMGP_IMM_190_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - memory_b_cells_cell_count

ALTERNATIVE - Total B cells - IMPC panel cell count ALTMGP_IMM_191_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - total_b_cells_impc_panel_cell_count

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ALTERNATIVE - Total B2 cells - IMPC panel cell count ALTMGP_IMM_192_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - total_b2_cells_impc_panel_cell_count

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ALTERNATIVE - B2 marginal zone + precursor cells - IMPC panel cell count ALTMGP_IMM_193_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - b2_marginal_zone_precursor_cells_impc_panel_cell_count

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ALTERNATIVE - B2 t1 + t2 cells - IMPC panel cell count ALTMGP_IMM_194_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - b2_t1_t2_cells_impc_panel_cell_count

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ALTERNATIVE - B2 t3 + f1+ f2 + gc cells - IMPC panel cell count ALTMGP_IMM_195_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - b2_t3_f1_f2_gc_cells_impc_panel_cell_count

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ALTERNATIVE - Total myeloid cells - cell count ALTMGP_IMM_196_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - total_myeloid_cells_cell_count

ALTERNATIVE - Macrophages - cell count ALTMGP_IMM_197_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - macrophages_cell_count

ALTERNATIVE - Granulocytes + monocytes - cell count ALTMGP_IMM_198_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - granulocytes_monocytes_cell_count

ALTERNATIVE - Granulocytes - cell count ALTMGP_IMM_199_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - granulocytes_cell_count

ALTERNATIVE - Monocytes - cell count ALTMGP_IMM_200_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - monocytes_cell_count

ALTERNATIVE - Eosinophils - cell count ALTMGP_IMM_201_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - eosinophils_cell_count

ALTERNATIVE - Total DC - cell count ALTMGP_IMM_202_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - total_dc_cell_count

ALTERNATIVE - Plasmacytoid DC - cell count ALTMGP_IMM_203_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - plasmacytoid_dc_cell_count

ALTERNATIVE - Conventional DC (cDC) - cell count ALTMGP_IMM_204_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - conventional_dc_cdc_cell_count

ALTERNATIVE - CD11b-high cDC - cell count ALTMGP_IMM_205_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - cd11b_high_cdc_cell_count

ALTERNATIVE - CD11b-low cDC - cell count ALTMGP_IMM_206_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - cd11b_low_cdc_cell_count

ALTERNATIVE - CD103+ CD11b-low cDC - cell count ALTMGP_IMM_207_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - cd103_cd11b_low_cdc_cell_count

ALTERNATIVE - T cell panel singlets cell count ALTMGP_IMM_208_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - t_cell_panel_singlets_cell_count

ALTERNATIVE - B cell panel singlets cell count ALTMGP_IMM_209_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - b_cell_panel_singlets_cell_count

ALTERNATIVE - Myeloid panel singlets cell count ALTMGP_IMM_210_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - myeloid_panel_singlets_cell_count

ALTERNATIVE - IMPC panel singlets cell count ALTMGP_IMM_211_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - impc_panel_singlets_cell_count

ALTERNATIVE - T cell panel live cell count ALTMGP_IMM_212_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - t_cell_panel_live_cell_count

ALTERNATIVE - B cell panel live cell count ALTMGP_IMM_213_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - b_cell_panel_live_cell_count

ALTERNATIVE - Myeloid panel live cell count ALTMGP_IMM_214_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - myeloid_panel_live_cell_count

ALTERNATIVE - IMPC panel live cell count ALTMGP_IMM_215_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - impc_panel_live_cell_count

ALTERNATIVE - T cell panel lymphocyte gate cell count ALTMGP_IMM_216_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - t_cell_panel_lymphocyte_gate_cell_count

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ALTERNATIVE - B cell panel lymphocyte gate cell count ALTMGP_IMM_217_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - b_cell_panel_lymphocyte_gate_cell_count

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ALTERNATIVE - Myeloid panel lymphocyte gate cell count

ALTMGP_IMM_218_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - myeloid_panel_lymphocyte_gate_cell_count

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ALTERNATIVE - IMPC panel lymphocyte gate cell count AL

TMGP_IMM_219_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - impc_panel_lymphocyte_gate_cell_count

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ALTERNATIVE - 3i T cell panel ALTMGP_IMM_220_001 | v1.0

procedureMetadata

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - 3i_t_cell_panel

Options:
(A) CD45 NC605, TCRb AF700, TCRd PE-Cy7, CD8a BV510, CD4 BV786, CD161 BV650, CD44 FITC, CD62L PerCP-Cy5.5, CD25 APC, KLRG1 BV421, GITR PE,
(B) CD45 NC605, TCRb AF700, TCRd PE-Cy7, CD8a BV510, CD4 BV786, CD161 BV650, CD44 FITC, CD62L PerCP-Cy5.5, CD25 APC, KLRG1 BV421, GITR PE, Live/dead near IR,

(C) CD45 Qdot605, CD5 BV510, TCRd PE-Cy7, CD8a AF700, CD4 BV786, CD161 BV650, CD44 FITC, CD62L PerCP-Cy5.5, CD25 APC, KLRG1 BV421, GITR PE, Live/dead near IR,
(D) failed,

ALTERNATIVE - 3i B cell panel ALTMGP_IMM_221_001 | v1.0

procedureMetadata

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - 3i_b_cell_panel

Options:
(A) CD45 NC605, B220 AF700, CD19 BV786, CD5 BV510, CD21/35 FITC, CD23 BV421, GL-7 PE, IgM PE-Cy7, CD93 PerCP-Cy5.5, CD138 BV650, Live/dead near IR,
(B) CD45 NC605, B220 AF700, CD19 BV786, CD5 BV510, CD21/35 FITC, CD23 BV421, GL-7 AF647, IgM PE-Cy7, IgD PerCP-Cy5.5, CD93 PE, CD138 BV650, Live/dead near IR,
(C) CD45 Qdot605, B220 AF700, CD5 BV510, CD21/35 FITC, CD23 BV421, GL-7 AF647, IgM BV786, IgD PerCP-Cy5.5, IgG1 PE, CD95 PE-Cy7, CD138 BV650, Live/dead near IR,
(D) failed,

ALTERNATIVE - 3i Myeloid panel ALTMGP_IMM_222_001 | v1.0

procedureMetadata

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - 3i_myeloid_panel

Options:
(A) CD45 NC605, CD11c BV711, CD11b BV510, F4/80 PerCP-Cy5.5, CD103 PE, CD317 APC, CD86 PE-Cy7, MHC II FITC, Gr1 AF700, Dump (CD3, CD19, CD161) BV421, Live /dead near IR,

(B) CD45 Qdot605, CD11c BV786, CD11b BV510, F4/80 PerCP-Cy5.5, CD103 PE, CD317 BV650, CD86 PE-Cy7, MHC II FITC, Ly6C AF700, Ly6G APC, Dump (CD3, CD19, CD161) BV421, Live/dead near IR,
(C) failed,

ALTERNATIVE - 3i IMPC panel 2 ALTMGP_IMM_223_001 | v1.0

procedureMetadata

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - 3i_impc_panel_2

Options: (A) not applicable,
(B) CD19 PE-Cy7, CD5 APC, CD161 BV650, CD21/35 PE, CD11b BV510, CD11c BV786, Ly6C AF700, Ly6G APC, MHC II FITC, CD23 BV421, Live/dead near IR,
(C) failed,

ALTERNATIVE - Tissue dissociation method ALTMGP_IMM_224_001 | v1.0

procedureMetadata

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - tissue_dissociation_method

Options: Centrifugation, GentleMACS, Pestle,

ALTERNATIVE - Collagenase digestion ALTMGP_IMM_225_001 | v1.0

procedureMetadata

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - collagenase_digestion

Options: No, Yes,

ALTERNATIVE - Buffers and enzymes ALTMGP_IMM_226_001 | v1.0

procedureMetadata

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - buffers_and_enzymes

Options: IMPC, pre-IMPC,

ALTERNATIVE - FACS sample status ALTMGP_IMM_227_001 | v1.0

procedureMetadata

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - facs_sample_status

Options: Analysed next day unfixed, Fixed, Fresh, Prepared next day, analysed fresh,

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ALTERNATIVE - FACS equipment name ALTMGP_IMM_228_001 | v1.0

procedureMetadata

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - facs_equipment_name

Options: Flow cytometer,

ALTERNATIVE - FACS equipment manufacturer ALTMGP_IMM_229_001 | v1.0

procedureMetadata

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - facs_equipment_manufacturer

Options: Beckman Coulter, Beckton Dickinson,

ALTERNATIVE - FACS equipment model ALTMGP_IMM_230_001 | v1.0

procedureMetadata

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - facs_equipment_model

Options: FC500, LSR Fortessa X20, LSR II,

ALTERNATIVE - Comments ALTMGP_IMM_231_001 | v1.0

procedureMetadata

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - comments

ALTERNATIVE - Anesthesia used for blood collection ALTMGP_IMM_232_001 | v1.1

procedureMetadata

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - null

Options: Injection narcosis with Ketamine (100mg/kg)/Xylazine (10mg/kg),
Injection narcosis with Tribromoethanol (Avertin),

ALTERNATIVE - Images associated with FACS analysis ALTMGP_IMM_233_001 | v1.0

seriesMediaParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Description: ALTERNATIVE -