

# Spleen Immunophenotyping MGP\_IMM\_001

## Purpose

Spleen Immunophenotyping

## Parameters and Metadata

### Total T cells - % of CD45+ MGP\_IMM\_001\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Unit Measured: %

Description: total\_t\_cells\_of\_cd45

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### Ly6C+ CD5+ T cells - % of CD5+ T cells MGP\_IMM\_002\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Unit Measured: %

Description: ly6c\_cd5\_t\_cells\_of\_cd5\_t\_cells

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### Total ab T cells - % of total T cells MGP\_IMM\_003\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Unit Measured:** %

**Description:** total\_ab\_t\_cells\_of\_total\_t\_cells

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## Total CD4+ T cells - % of ab T cells MGP\_IMM\_004\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Unit Measured:** %

**Description:** total\_cd4\_t\_cells\_of\_ab\_t\_cells

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## CD4+ T helper cells - % of CD4+ MGP\_IMM\_005\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Unit Measured:** %

**Description:** cd4\_t\_helper\_cells\_of\_cd4

---

**Effector CD4+ T helper cells - % of CD4+ T helper cells** MG

P\_IMM\_006\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Unit Measured: %

Description: effector\_cd4\_t\_helper\_cells\_of\_cd4\_t\_helper\_cells

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**Resting CD4+ T helper cells - % of CD4+ T helper cells** MGP

\_IMM\_007\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Unit Measured: %

Description: resting\_cd4\_t\_helper\_cells\_of\_cd4\_t\_helper\_cells

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**KLRG1+ CD4+ T helper cells - % of CD4+ T helper cells** MG

P\_IMM\_008\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Unit Measured: %

Description: klrp1\_cd4\_t\_helper\_cells\_of\_cd4\_t\_helper\_cells

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## Total Treg cells - % of CD4+ MGP\_IMM\_009\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Unit Measured: %

Description: total\_treg\_cells\_of\_cd4

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## Effector Treg cells - % of Treg MGP\_IMM\_010\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Unit Measured: %

Description: effector\_treg\_cells\_of\_treg

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## Resting Treg cells - % of Treg MGP\_IMM\_011\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Unit Measured: %

Description: resting\_treg\_cells\_of\_treg

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## KLRG1+ Treg cells - % of Treg MGP\_IMM\_012\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Unit Measured: %

Description: klrg1\_treg\_cells\_of\_treg

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## Total CD8+ T cells - % of ab T cells MGP\_IMM\_013\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Unit Measured: %

Description: total\_cd8\_t\_cells\_of\_ab\_t\_cells

---

## Effector CD8+ T cells - % of CD8+ MGP\_IMM\_014\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Unit Measured: %

**Description:** effector\_cd8\_t\_cells\_of\_cd8

---

**Resting CD8+ T cells - % of CD8+** MGP\_IMM\_015\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Unit Measured:** %

**Description:** resting\_cd8\_t\_cells\_of\_cd8

---

**Naive CD8+ T cells - % of CD8+** MGP\_IMM\_016\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Unit Measured:** %

**Description:** naive\_cd8\_t\_cells\_of\_cd8

---

**KLRG1+ CD8+ T cells - % of CD8+** MGP\_IMM\_017\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Unit Measured:** %

**Description:** klrg1\_cd8\_t\_cells\_of\_cd8

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**Total gd T cells - % of total T cells** MGP\_IMM\_018\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Unit Measured:** %

**Description:** total\_gd\_t\_cells\_of\_total\_t\_cells

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**CD5+ gd T cells - % of gd T cells** MGP\_IMM\_019\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Unit Measured:** %

**Description:** cd5\_gd\_t\_cells\_of\_gd\_t\_cells

---

**Effector gd T cells - % of gd T cells** MGP\_IMM\_020\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Unit Measured:** %

**Description:** effector\_gd\_t\_cells\_of\_gd\_t\_cells

---

**Resting gd T cells - % of gd T cells** MGP\_IMM\_021\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Unit Measured:** %

**Description:** resting\_gd\_t\_cells\_of\_gd\_t\_cells

---

**KLRG1+ gd T cells - % of gd T cells** MGP\_IMM\_022\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Unit Measured:** %

**Description:** klrg1\_gd\_t\_cells\_of\_gd\_t\_cells

---

**Total NKT cells - % of CD45+** MGP\_IMM\_023\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Unit Measured:** %

**Description:** total\_nkt\_cells\_of\_cd45

---

**Ly6C+ NKT cells - % of NKT cells** MGP\_IMM\_024\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Unit Measured:** %

**Description:** ly6c\_nkt\_cells\_of\_nkt\_cells

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**Total CD4- NKT cells - % of NKT cells** MGP\_IMM\_025\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Unit Measured:** %

**Description:** total\_cd4\_nkt\_cells\_of\_nkt\_cells

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**Effector CD4- NKT cells - % of CD4- NKT cells** MGP\_IMM\_026\_0

01 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Unit Measured:** %

**Description:** effector\_cd4\_nkt\_cells\_of\_cd4\_nkt\_cells

---

**Resting CD4- NKT cells - % of CD4- NKT cells** MGP\_IMM\_027\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Unit Measured:** %

**Description:** resting\_cd4\_nkt\_cells\_of\_cd4\_nkt\_cells

---

**KLRG1+ CD4- NKT cells - % of CD4- NKT cells** MGP\_IMM\_028\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Unit Measured:** %

**Description:** klrg1\_cd4\_nkt\_cells\_of\_cd4\_nkt\_cells

---

## Total CD4+ NKT cells - % of NKT cells MGP\_IMM\_029\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Unit Measured: %

Description: total\_cd4\_nkt\_cells\_of\_nkt\_cells

---

## Effector CD4+ NKT cells - % of CD4+ NKT cells MGP\_IMM\_030

\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Unit Measured: %

Description: effector\_cd4\_nkt\_cells\_of\_cd4\_nkt\_cells

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## Resting CD4+ NKT cells - % of CD4+ NKT cells MGP\_IMM\_031\_

001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Unit Measured: %

Description: resting\_cd4\_nkt\_cells\_of\_cd4\_nkt\_cells

---

## KLRG1+ CD4+ NKT cells - % of CD4+ NKT cells MGP\_IMM\_032\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Unit Measured: %

Description: klrg1\_cd4\_nkt\_cells\_of\_cd4\_nkt\_cells

---

## Total NK cells - % of CD45+ MGP\_IMM\_033\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Unit Measured: %

Description: total\_nk\_cells\_of\_cd45

---

## Effector NK cells - % of NK cells MGP\_IMM\_034\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Unit Measured: %

Description: effector\_nk\_cells\_of\_nk\_cells

---

## Resting NK cells - % of NK cells MGP\_IMM\_035\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Unit Measured: %

Description: resting\_nk\_cells\_of\_nk\_cells

---

## KLRG1+ NK cells - % of NK cells MGP\_IMM\_036\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Unit Measured: %

Description: klrg1\_nk\_cells\_of\_nk\_cells

---

## Immature NK cells - % of NK cells MGP\_IMM\_037\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Unit Measured: %

**Description:** immature\_nk\_cells\_of\_nk\_cells

---

**Ly6C+ immature NK cells - % of immature NK cells** MGP\_IMM\_038\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Unit Measured:** %

**Description:** ly6c\_immature\_nk\_cells\_of\_immature\_nk\_cells

---

**Mature NK cells - % of NK cells** MGP\_IMM\_039\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Unit Measured:** %

**Description:** mature\_nk\_cells\_of\_nk\_cells

---

**Ly6C+ mature NK cells - % of mature NK cells** MGP\_IMM\_040\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Unit Measured: %

Description: ly6c\_mature\_nk\_cells\_of\_mature\_nk\_cells

---

**Total B cells - % of CD45+** MGP\_IMM\_041\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Unit Measured: %

Description: total\_b\_cells\_of\_cd45

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**B1a cells - % of B cells** MGP\_IMM\_042\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Unit Measured: %

Description: b1a\_cells\_of\_b\_cells

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**Total B2 cells - % of B cells** MGP\_IMM\_043\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Unit Measured:** %

**Description:** total\_b2\_cells\_of\_b\_cells

---

**Marginal zone B cells - % of B2 cells** MGP\_IMM\_044\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Unit Measured:** %

**Description:** marginal\_zone\_b\_cells\_of\_b2\_cells

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**Marginal zone precursor B cells - % of B2 cells** MGP\_IMM\_045\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Unit Measured:** %

**Description:** marginal\_zone\_precursor\_b\_cells\_of\_b2\_cells

---

**Transitional 1 B cells - % of B2 cells** MGP\_IMM\_046\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Unit Measured:** %

**Description:** transitional\_1\_b\_cells\_of\_b2\_cells

---

## Transitional 2 B cells - % of B2 cells MGP\_IMM\_047\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Unit Measured:** %

**Description:** transitional\_2\_b\_cells\_of\_b2\_cells

---

## Follicular B cells - % of B2 cells MGP\_IMM\_048\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Unit Measured:** %

**Description:** follicular\_b\_cells\_of\_b2\_cells

---

## Germinal centre B cells - % of B2 cells MGP\_IMM\_049\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Unit Measured: %

Description: germinal\_centre\_b\_cells\_of\_b2\_cells

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## Early germinal centre B cells - % of GC cells MGP\_IMM\_050\_001

| v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Unit Measured: %

Description: early\_germinal\_centre\_b\_cells\_of\_gc\_cells

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## Late germinal centre B cells - % of GC cells MGP\_IMM\_051\_001

| v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Unit Measured: %

Description: late\_germinal\_centre\_b\_cells\_of\_gc\_cells

---

## Plasma cells - % of B2 cells MGP\_IMM\_052\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Unit Measured: %

Description: plasma\_cells\_of\_b2\_cells

---

## Memory B cells - % of B2 cells MGP\_IMM\_053\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Unit Measured: %

Description: memory\_b\_cells\_of\_b2\_cells

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## B2 marginal zone + precursor cells - % of B2 cells MGP\_IMM\_054\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: b2\_marginal\_zone\_precursor\_cells\_of\_b2\_cells

---

## **B2 t1 + t2 cells - % of B2 cells** MGP\_IMM\_055\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: b2\_t1\_t2\_cells\_of\_b2\_cells

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## **B2 t3 + f1 + f2 + gc cells - % of B2 cells** MGP\_IMM\_056\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: b2\_t3\_f1\_f2\_gc\_cells\_of\_b2\_cells

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## **Total myeloid cells - % of CD45+** MGP\_IMM\_057\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Unit Measured: %

**Description:** total\_myeloid\_cells\_of\_cd45

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**Macrophages - % of myeloid cells** MGP\_IMM\_058\_001 | v1.1

simpleParameter

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

**Unit Measured:** %

**Description:** macrophages\_of\_myeloid\_cells

---

**Granulocytes + monocytes - % of myeloid cells** MGP\_IMM\_059\_001 | v1.0

simpleParameter

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

**Unit Measured:** %

**Description:** granulocytes\_monocytes\_of\_myeloid\_cells

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**Granulocytes - % of myeloid cells** MGP\_IMM\_060\_001 | v1.1

simpleParameter

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

**Unit Measured:** %

**Description:** granulocytes\_of\_myeloid\_cells

---

**Monocytes - % of myeloid cells** MGP\_IMM\_061\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Unit Measured:** %

**Description:** monocytes\_of\_myeloid\_cells

---

**Eosinophils - % of myeloid cells** MGP\_IMM\_062\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Unit Measured:** %

**Description:** eosinophils\_of\_myeloid\_cells

---

**Total DC - % of myeloid cells** MGP\_IMM\_063\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Unit Measured:** %

**Description:** total\_dc\_of\_myeloid\_cells

---

## Plasmacytoid DC - % of DC MGP\_IMM\_064\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Unit Measured:** %

**Description:** plasmacytoid\_dc\_of\_dc

---

## Conventional DC (cDC) - % of DC MGP\_IMM\_065\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Unit Measured:** %

**Description:** conventional\_dc\_cdc\_of\_dc

---

## CD11b-high cDC - % of cDC MGP\_IMM\_066\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Unit Measured:** %

**Description:** cd11b\_high\_cdc\_of\_cdc

---

**CD11b-low cDC - % of cDC** MGP\_IMM\_067\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Unit Measured:** %

**Description:** cd11b\_low\_cdc\_of\_cdc

---

**CD103+ CD11b-low cDC - % of CD11b-low cDC** MGP\_IMM\_068\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Unit Measured:** %

**Description:** cd103\_cd11b\_low\_cdc\_of\_cd11b\_low\_cdc

---

**Ly6C+ CD5+ T cells - % of lymphocytes** MGP\_IMM\_069\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ly6c\_cd5\_t\_cells\_of\_lymphocytes

---

## Total ab T cells - % of CD45+ MGP\_IMM\_070\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: total\_ab\_t\_cells\_of\_cd45

---

## Total CD4+ T cells - % of CD45+ MGP\_IMM\_071\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: total\_cd4\_t\_cells\_of\_cd45

---

## CD4+ T helper cells - % of CD45+ MGP\_IMM\_072\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: cd4\_t\_helper\_cells\_of\_cd45

---

## Effector CD4+ T helper cells - % of CD45+ MGP\_IMM\_073\_001 | v1

.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: effector\_cd4\_t\_helper\_cells\_of\_cd45

---

## Resting CD4+ T helper cells - % of CD45+ MGP\_IMM\_074\_001 | v1

.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: resting\_cd4\_t\_helper\_cells\_of\_cd45

---

## KLRG1+ CD4+ T helper cells - % of CD45+ MGP\_IMM\_075\_001 |

v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: klrg1\_cd4\_t\_helper\_cells\_of\_cd45

---

## Total Treg cells - % of CD45+ MGP\_IMM\_076\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: total\_treg\_cells\_of\_cd45

---

## Effector Treg cells - % of CD45+ MGP\_IMM\_077\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: effector\_treg\_cells\_of\_cd45

---

## Resting Treg cells - % of CD45+ MGP\_IMM\_078\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: resting\_treg\_cells\_of\_cd45

---

## KLRG1+ Treg cells - % of CD45+ MGP\_IMM\_079\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: klrg1\_treg\_cells\_of\_cd45

---

## Total CD8+ T cells - % of CD45+ MGP\_IMM\_080\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

**Description:** total\_cd8\_t\_cells\_of\_cd45

---

**Effector CD8+ T cells - % of CD45+** MGP\_IMM\_081\_001 | v1.0

simpleParameter

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

**Unit Measured:** %

**Description:** effector\_cd8\_t\_cells\_of\_cd45

---

**Resting CD8+ T cells - % of CD45+** MGP\_IMM\_082\_001 | v1.0

simpleParameter

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

**Unit Measured:** %

**Description:** resting\_cd8\_t\_cells\_of\_cd45

---

**Naive CD8+ T cells - % of CD45+** MGP\_IMM\_083\_001 | v1.0

simpleParameter

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

**Unit Measured:** %

**Description:** naive\_cd8\_t\_cells\_of\_cd45

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**KLRG1+ CD8+ T cells - % of CD45+** MGP\_IMM\_084\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** klrg1\_cd8\_t\_cells\_of\_cd45

---

**Total gd T cells - % of CD45+** MGP\_IMM\_085\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** total\_gd\_t\_cells\_of\_cd45

---

**CD5+ gd T cells - % of CD45+** MGP\_IMM\_086\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** cd5\_gd\_t\_cells\_of\_cd45

---

**Effector gd cells - % of CD45+** MGP\_IMM\_087\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** effector\_gd\_cells\_of\_cd45

---

**Resting gd T cells - % of CD45+** MGP\_IMM\_088\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** resting\_gd\_t\_cells\_of\_cd45

---

**KLRG1+ gd T cells - % of CD45+** MGP\_IMM\_089\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** klrg1\_gd\_t\_cells\_of\_cd45

---

**Ly6C+ NKT cells - % of lymphocytes** MGP\_IMM\_090\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** ly6c\_nkt\_cells\_of\_lymphocytes

---

**Total CD4- NKT cells - % of CD45+** MGP\_IMM\_091\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** total\_cd4\_nkt\_cells\_of\_cd45

---

**Effector CD4- NKT cells - % of CD45+** MGP\_IMM\_092\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: effector\_cd4\_nkt\_cells\_of\_cd45

---

**Resting CD4- NKT cells - % of CD45+** MGP\_IMM\_093\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: resting\_cd4\_nkt\_cells\_of\_cd45

---

**KLRG1+ CD4- NKT cells - % of CD45+** MGP\_IMM\_094\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: klrg1\_cd4\_nkt\_cells\_of\_cd45

---

**Total CD4+ NKT cells - % of CD45+** MGP\_IMM\_095\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: total\_cd4\_nkt\_cells\_of\_cd45

---

## Effector CD4+ NKT cells - % of CD45+ MGP\_IMM\_096\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: effector\_cd4\_nkt\_cells\_of\_cd45

---

## Resting CD4+ NKT cells - % of CD45+ MGP\_IMM\_097\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: resting\_cd4\_nkt\_cells\_of\_cd45

---

## KLRG1+ CD4+ NKT cells - % of CD45+ MGP\_IMM\_098\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** klrg1\_cd4\_nkt\_cells\_of\_cd45

---

## **Effector NK cells - % of CD45+** MGP\_IMM\_099\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** effector\_nk\_cells\_of\_cd45

---

## **Resting NK cells - % of CD45+** MGP\_IMM\_100\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** resting\_nk\_cells\_of\_cd45

---

## **KLRG1+ NK cells - % of CD45+** MGP\_IMM\_101\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** klrg1\_nk\_cells\_of\_cd45

---

## Immature NK cells - % of lymphocytes MGP\_IMM\_102\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** immature\_nk\_cells\_of\_lymphocytes

---

## Ly6C+ immature NK cells - % of lymphocytes MGP\_IMM\_103\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** ly6c\_immature\_nk\_cells\_of\_lymphocytes

---

**Mature NK cells - % of lymphocytes** MGP\_IMM\_104\_001 | v1.0

simpleParameter

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

Unit Measured: %

Description: mature\_nk\_cells\_of\_lymphocytes

---

**Ly6C+ mature NK cells - % of lymphocytes** MGP\_IMM\_105\_001 |

v1.0

simpleParameter

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

Unit Measured: %

Description: ly6c\_mature\_nk\_cells\_of\_lymphocytes

---

**B1a cells - % of CD45+** MGP\_IMM\_106\_001 | v1.0

simpleParameter

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

Unit Measured: %

Description: b1a\_cells\_of\_cd45

---

## Total B2 cells - % of CD45+ MGP\_IMM\_107\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: total\_b2\_cells\_of\_cd45

---

## Marginal zone B cells - % of CD45+ MGP\_IMM\_108\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: marginal\_zone\_b\_cells\_of\_cd45

---

## Marginal zone precursor B cells - % of CD45+ MGP\_IMM\_109\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: marginal\_zone\_precursor\_b\_cells\_of\_cd45

---

## Transitional 1 B cells - % of CD45+ MGP\_IMM\_110\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: transitional\_1\_b\_cells\_of\_cd45

---

## Transitional 2 B cells - % of CD45+ MGP\_IMM\_111\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: transitional\_2\_b\_cells\_of\_cd45

---

## Follicular B cells - % of CD45+ MGP\_IMM\_112\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: follicular\_b\_cells\_of\_cd45

---

## Germinal centre B cells - % of CD45+ MGP\_IMM\_113\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: germinal\_centre\_b\_cells\_of\_cd45

---

## Early germinal centre B cells - % of CD45+ MGP\_IMM\_114\_001 |

v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: early\_germinal\_centre\_b\_cells\_of\_cd45

---

## Late germinal centre B cells - % of CD45+ MGP\_IMM\_115\_001 | v1

.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

**Unit Measured:** %

**Description:** late\_germinal\_centre\_b\_cells\_of\_cd45

---

**Plasma cells - % of CD45+** MGP\_IMM\_116\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** plasma\_cells\_of\_cd45

---

**Memory B cells - % of CD45+** MGP\_IMM\_117\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** memory\_b\_cells\_of\_cd45

---

**B2 marginal zone + precursor cells - % of lymphocytes** MG

P\_IMM\_118\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: b2\_marginal\_zone\_precursor\_cells\_of\_lymphocytes

---

**B2 t1 + t2 cells - % of lymphocytes** MGP\_IMM\_119\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: b2\_t1\_t2\_cells\_of\_lymphocytes

---

**B2 t3 + f1+ f2 + gc cells - % of lymphocytes** MGP\_IMM\_120\_001 |

v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: b2\_t3\_f1\_f2\_gc\_cells\_of\_lymphocytes

---

**Macrophages - % of CD45+** MGP\_IMM\_121\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: macrophages\_of\_cd45

---

**Granulocytes + monocytes - % of CD45+** MGP\_IMM\_122\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: granulocytes\_monocytes\_of\_cd45

---

**Granulocytes - % of CD45+** MGP\_IMM\_123\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: granulocytes\_of\_cd45

---

## Monocytes - % of CD45+ MGP\_IMM\_124\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: monocytes\_of\_cd45

---

## Eosinophils - % of CD45+ MGP\_IMM\_125\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: eosinophils\_of\_cd45

---

## Total DC - % of CD45+ MGP\_IMM\_126\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: total\_dc\_of\_cd45

---

## Plasmacytoid DC - % of CD45+ MGP\_IMM\_127\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: plasmacytoid\_dc\_of\_cd45

---

## Conventional DC (cDC) - % of CD45+ MGP\_IMM\_128\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: conventional\_dc\_cdc\_of\_cd45

---

## CD11b-high cDC - % of CD45+ MGP\_IMM\_129\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: cd11b\_high\_cdc\_of\_cd45

---

## CD11b-low cDC - % of CD45+ MGP\_IMM\_130\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: cd11b\_low\_cdc\_of\_cd45

---

## CD103+ CD11b-low cDC - % of CD45+ MGP\_IMM\_131\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: cd103\_cd11b\_low\_cdc\_of\_cd45

---

## T cell panel CD45+ live cell count MGP\_IMM\_132\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: t\_cell\_panel\_cd45\_live\_cell\_count

---

**B cell panel CD45+ live cell count** MGP\_IMM\_133\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** b\_cell\_panel\_cd45\_live\_cell\_count

---

**Myeloid panel CD45+ live cell count** MGP\_IMM\_134\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** myeloid\_panel\_cd45\_live\_cell\_count

---

**Total T cells - cell count** MGP\_IMM\_135\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** total\_t\_cells\_cell\_count

---

**Total CD5+ T cells - IMPC panel cell count** MGP\_IMM\_136\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: total\_cd5\_t\_cells\_impc\_panel\_cell\_count

---

## Ly6C+ CD5+ T cells - IMPC panel cell count MGP\_IMM\_137\_001

| v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ly6c\_cd5\_t\_cells\_impc\_panel\_cell\_count

---

## Total ab T cells - cell count MGP\_IMM\_138\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: total\_ab\_t\_cells\_cell\_count

---

## Total CD4+ T cells - cell count MGP\_IMM\_139\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

**Description:** total\_cd4\_t\_cells\_cell\_count

---

**CD4+ T helper cells - cell count** MGP\_IMM\_140\_001 | v1.0

simpleParameter

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

**Description:** cd4\_t\_helper\_cells\_cell\_count

---

**Effector CD4+ T helper cells - cell count** MGP\_IMM\_141\_001 | v1.0

simpleParameter

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

**Description:** effector\_cd4\_t\_helper\_cells\_cell\_count

---

**Resting CD4+ T helper cells - cell count** MGP\_IMM\_142\_001 | v1.0

simpleParameter

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

**Description:** resting\_cd4\_t\_helper\_cells\_cell\_count

---

## KLRG1+ CD4+ T helper cells - cell count MGP\_IMM\_143\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: klrp1\_cd4\_t\_helper\_cells\_cell\_count

---

## Total Treg cells - cell count MGP\_IMM\_144\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: total\_treg\_cells\_cell\_count

---

## Effector Treg cells - cell count MGP\_IMM\_145\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: effector\_treg\_cells\_cell\_count

---

## Resting Treg cells - cell count MGP\_IMM\_146\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** resting\_treg\_cells\_cell\_count

---

## **KLRG1+ Treg cells - cell count** MGP\_IMM\_147\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** klrg1\_treg\_cells\_cell\_count

---

## **Total CD8+ T cells - cell count** MGP\_IMM\_148\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** total\_cd8\_t\_cells\_cell\_count

---

## **Effector CD8+ T cells - cell count** MGP\_IMM\_149\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** effector\_cd8\_t\_cells\_cell\_count

---

## Resting CD8+ T cells - cell count MGP\_IMM\_150\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: resting\_cd8\_t\_cells\_cell\_count

---

## Naive CD8+ T cells - cell count MGP\_IMM\_151\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: naive\_cd8\_t\_cells\_cell\_count

---

## KLRG1+ CD8+ T cells - cell count MGP\_IMM\_152\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: klrg1\_cd8\_t\_cells\_cell\_count

---

## Total gd T cells - cell count MGP\_IMM\_153\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: total\_gd\_t\_cells\_cell\_count

---

## CD5+ gd T cells - cell count MGP\_IMM\_154\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: cd5\_gd\_t\_cells\_cell\_count

---

## Effector gd T cells - cell count MGP\_IMM\_155\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: effector\_gd\_t\_cells\_cell\_count

---

## Resting gd T cells - cell count MGP\_IMM\_156\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

**Description:** resting\_gd\_t\_cells\_cell\_count

---

**KLRG1+ gd T cells - cell count** MGP\_IMM\_157\_001 | v1.0

simpleParameter

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

**Description:** klrg1\_gd\_t\_cells\_cell\_count

---

**Total NKT cells - cell count** MGP\_IMM\_158\_001 | v1.0

simpleParameter

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

**Description:** total\_nkt\_cells\_cell\_count

---

**Total NKT cells - IMPC panel cell count** MGP\_IMM\_159\_001 | v1.0

simpleParameter

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

**Description:** total\_nkt\_cells\_impc\_panel\_cell\_count

---

## Ly6C+ NKT cells - IMPC panel cell count MGP\_IMM\_160\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ly6c\_nkt\_cells\_impc\_panel\_cell\_count

---

## Total CD4- NKT cells - cell count MGP\_IMM\_161\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: total\_cd4\_nkt\_cells\_cell\_count

---

## Effector CD4- NKT cells - cell count MGP\_IMM\_162\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: effector\_cd4\_nkt\_cells\_cell\_count

---

## Resting CD4- NKT cells - cell count MGP\_IMM\_163\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: resting\_cd4\_nkt\_cells\_cell\_count

---

## KLRG1+ CD4- NKT cells - cell count MGP\_IMM\_164\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: klrg1\_cd4\_nkt\_cells\_cell\_count

---

## Total CD4+ NKT cells - cell count MGP\_IMM\_165\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: total\_cd4\_nkt\_cells\_cell\_count

---

## Effector CD4+ NKT cells - cell count MGP\_IMM\_166\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

**Description:** effector\_cd4\_nkt\_cells\_cell\_count

---

## **Resting CD4+ NKT cells - cell count** MGP\_IMM\_167\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** resting\_cd4\_nkt\_cells\_cell\_count

---

## **KLRG1+ CD4+ NKT cells - cell count** MGP\_IMM\_168\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** klrg1\_cd4\_nkt\_cells\_cell\_count

---

## **Total NK cells - cell count** MGP\_IMM\_169\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** total\_nk\_cells\_cell\_count

---

## Effector NK cells - cell count MGP\_IMM\_170\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: effector\_nk\_cells\_cell\_count

---

## Resting NK cells - cell count MGP\_IMM\_171\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: resting\_nk\_cells\_cell\_count

---

## KLRG1+ NK cells - cell count MGP\_IMM\_172\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: klrg1\_nk\_cells\_cell\_count

---

## Total NK cells - IMPC panel cell count MGP\_IMM\_173\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: total\_nk\_cells\_impc\_panel\_cell\_count

---

## Immature NK cells - IMPC panel cell count MGP\_IMM\_174\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: immature\_nk\_cells\_impc\_panel\_cell\_count

---

## Ly6C+ immature NK cells - IMPC panel cell count MGP\_IMM\_175\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ly6c\_immature\_nk\_cells\_impc\_panel\_cell\_count

---

## Mature NK cells - IMPC panel cell count MGP\_IMM\_176\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

**Description:** mature\_nk\_cells\_impc\_panel\_cell\_count

---

**Ly6C+ mature NK cells - IMPC panel cell count** MGP\_IMM\_177\_001 | v1.0

simpleParameter

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

**Description:** ly6c\_mature\_nk\_cells\_impc\_panel\_cell\_count

---

**Total B cells - cell count** MGP\_IMM\_178\_001 | v1.0

simpleParameter

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

**Description:** total\_b\_cells\_cell\_count

---

**B1a cells - cell count** MGP\_IMM\_179\_001 | v1.0

simpleParameter

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

**Description:** b1a\_cells\_cell\_count

---

## Total B2 cells - cell count MGP\_IMM\_180\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: total\_b2\_cells\_cell\_count

---

## Marginal zone B cells - cell count MGP\_IMM\_181\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: marginal\_zone\_b\_cells\_cell\_count

---

## Marginal zone precursor B cells - cell count MGP\_IMM\_182\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: marginal\_zone\_precursor\_b\_cells\_cell\_count

---

## Transitional 1 B cells - cell count MGP\_IMM\_183\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** transitional\_1\_b\_cells\_cell\_count

---

## Transitional 2 B cells - cell count MGP\_IMM\_184\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** transitional\_2\_b\_cells\_cell\_count

---

## Follicular B cells - cell count MGP\_IMM\_185\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** follicular\_b\_cells\_cell\_count

---

## Germinal centre B cells - cell count MGP\_IMM\_186\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** germinal\_centre\_b\_cells\_cell\_count

---

## Early germinal centre B cells - cell count MGP\_IMM\_187\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** early\_germinal\_centre\_b\_cells\_cell\_count

---

## Late germinal centre B cells - cell count MGP\_IMM\_188\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** late\_germinal\_centre\_b\_cells\_cell\_count

---

## Plasma cells - cell count MGP\_IMM\_189\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** plasma\_cells\_cell\_count

---

## Memory B cells - cell count MGP\_IMM\_190\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: memory\_b\_cells\_cell\_count

---

## Total B cells - IMPC panel cell count MGP\_IMM\_191\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: total\_b\_cells\_impc\_panel\_cell\_count

---

## Total B2 cells - IMPC panel cell count MGP\_IMM\_192\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: total\_b2\_cells\_impc\_panel\_cell\_count

---

## B2 marginal zone + precursor cells - IMPC panel cell count MGP\_IMM\_193\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: b2\_marginal\_zone\_precursor\_cells\_impc\_panel\_cell\_count

---

## B2 t1 + t2 cells - IMPC panel cell count MGP\_IMM\_194\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: b2\_t1\_t2\_cells\_impc\_panel\_cell\_count

---

## B2 t3 + f1+ f2 + gc cells - IMPC panel cell count MGP\_IMM\_195\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: b2\_t3\_f1\_f2\_gc\_cells\_impc\_panel\_cell\_count

---

## Total myeloid cells - cell count MGP\_IMM\_196\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

**Description:** total\_myeloid\_cells\_cell\_count

---

**Macrophages - cell count** MGP\_IMM\_197\_001 | v1.0

simpleParameter

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

**Description:** macrophages\_cell\_count

---

**Granulocytes + monocytes - cell count** MGP\_IMM\_198\_001 | v1.0

simpleParameter

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

**Description:** granulocytes\_monocytes\_cell\_count

---

**Granulocytes - cell count** MGP\_IMM\_199\_001 | v1.0

simpleParameter

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

**Description:** granulocytes\_cell\_count

---

## Monocytes - cell count MGP\_IMM\_200\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: monocytes\_cell\_count

---

## Eosinophils - cell count MGP\_IMM\_201\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: eosinophils\_cell\_count

---

## Total DC - cell count MGP\_IMM\_202\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: total\_dc\_cell\_count

---

## Plasmacytoid DC - cell count MGP\_IMM\_203\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** plasmacytoid\_dc\_cell\_count

---

## Conventional DC (cDC) - cell count MGP\_IMM\_204\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** conventional\_dc\_cdc\_cell\_count

---

## CD11b-high cDC - cell count MGP\_IMM\_205\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** cd11b\_high\_cdc\_cell\_count

---

## CD11b-low cDC - cell count MGP\_IMM\_206\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** cd11b\_low\_cdc\_cell\_count

---

## CD103+ CD11b-low cDC - cell count MGP\_IMM\_207\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: cd103\_cd11b\_low\_cdc\_cell\_count

---

## T cell panel singlets cell count MGP\_IMM\_208\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: t\_cell\_panel\_singlets\_cell\_count

---

## B cell panel singlets cell count MGP\_IMM\_209\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: b\_cell\_panel\_singlets\_cell\_count

---

## Myeloid panel singlets cell count MGP\_IMM\_210\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: myeloid\_panel\_singlets\_cell\_count

---

## IMPC panel singlets cell count MGP\_IMM\_211\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: impc\_panel\_singlets\_cell\_count

---

## T cell panel live cell count MGP\_IMM\_212\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: t\_cell\_panel\_live\_cell\_count

---

## B cell panel live cell count MGP\_IMM\_213\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

**Description:** b\_cell\_panel\_live\_cell\_count

---

**Myeloid panel live cell count** MGP\_IMM\_214\_001 | v1.0

simpleParameter

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

**Description:** myeloid\_panel\_live\_cell\_count

---

**IMPC panel live cell count** MGP\_IMM\_215\_001 | v1.0

simpleParameter

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

**Description:** impc\_panel\_live\_cell\_count

---

**T cell panel lymphocyte gate cell count** MGP\_IMM\_216\_001 | v1.0

simpleParameter

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

**Description:** t\_cell\_panel\_lymphocyte\_gate\_cell\_count

---

## B cell panel lymphocyte gate cell count MGP\_IMM\_217\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: b\_cell\_panel\_lymphocyte\_gate\_cell\_count

---

## Myeloid panel lymphocyte gate cell count MGP\_IMM\_218\_001 | v1

.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: myeloid\_panel\_lymphocyte\_gate\_cell\_count

---

## IMPC panel lymphocyte gate cell count MGP\_IMM\_219\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: impc\_panel\_lymphocyte\_gate\_cell\_count

---

## 3i T cell panel MGP\_IMM\_220\_001 | v1.0

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

Description: 3i\_t\_cell\_panel

**Options:**  
(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,  
(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,  
(D) failed,

-----

**3i B cell panel** MGP\_IMM\_221\_001 | v1.0

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

Description: 3i\_b\_cell\_panel

**Options:**  
(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,  
(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,  
(D) failed,

-----

## 3i Myeloid panel MGP\_IMM\_222\_001 | v1.0

[procedureMetadata](#)

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** 3i\_myeloid\_panel

### Options:

(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,

(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,

(C) failed,

---

## 3i IMPC panel 2 MGP\_IMM\_223\_001 | v1.0

[procedureMetadata](#)

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** 3i\_impac\_panel\_2

### Options:

(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,

(A) not applicable, (C) failed,

---

## Tissue dissociation method MGP\_IMM\_224\_001 | v1.0

[procedureMetadata](#)

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** tissue\_dissociation\_method

**Options:** GentleMACS, Pestle, Centrifugation,

---

## Collagenase digestion MGP\_IMM\_225\_001 | v1.0

procedureMetadata

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** collagenase\_digestion

**Options:** Yes, No,

---

## Buffers and enzymes MGP\_IMM\_226\_001 | v1.0

procedureMetadata

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** buffers\_and\_enzymes

**Options:** IMPC, pre-IMPC,

---

## FACS sample status MGP\_IMM\_227\_001 | v1.0

procedureMetadata

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** facs\_sample\_status

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

---

## **FACS equipment name** MGP\_IMM\_228\_001 | v1.0

procedureMetadata

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** facs\_equipment\_name

**Options:** Flow cytometer,

---

## **FACS equipment manufacturer** MGP\_IMM\_229\_001 | v1.0

procedureMetadata

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** facs\_equipment\_manufacturer

**Options:** Beckton Dickinson, Beckman Coulter,

---

## **FACS equipment model** MGP\_IMM\_230\_001 | v1.0

procedureMetadata

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** facs\_equipment\_model

**Options:** LSR Fortessa X20, LSR II, FC500,

---

## Comments MGP\_IMM\_231\_001 | v1.0

procedureMetadata

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** comments

---

## Anesthesia used for blood collection MGP\_IMM\_232\_001 | v1.1

procedureMetadata

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

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

---

## Images associated with FACS analysis MGP\_IMM\_233\_001 | v1.0

seriesMediaParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

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