Buffy coat peripheral blood leukocyte immunophenotyping MGP_BCI_001

Purpose

Buffy coat peripheral blood leukocyte immunophenotyping

Procedure

Mice were fed on Mouse Breeder Diet (5021, Labdiet) from weaning

Analysis is performed on the buffy coat obtained from heparinised blood after red blood cell lysis for the following parameters: Percentages of total T cells (CD3+), CD4+ and CD8+ T cells, NKT cells (CD3+ CD161+), NK cells (CD3-CD161+), B cells (CD19+), Granulocytes (CD11b+ Gr1+) and Monocytes (CD11b+ Gr1dim/neg CD161-) are presented relative to the total viable CD45+ population.

Percentages of CD44hi CD62Llo CD4+ T cells and CD25+ regulatory T cells are presented relative to the total CD4+ T cell population.

Percentages of effector of CD44hi CD62Llo CD8+ T cells and mature IgD+ B cells are presented relative to the total CD8+ T cell and B cell populations respectively.

All samples are acquired on a BD LSR II with dead cells excluded with the use of a viability indicator.

All analysis is performed using FlowJo software.

Parameters and Metadata

**T cell CD3+ percentage** MGP_BCI_001_001 | v1.0

*simpleParameter*


Unit Measured: %

Description: t_cell_cd3_percentage
**T cell CD4+ percentage**  MGP_BCI_002_001 | v1.0

simpleParameter

Unit Measured: %

Description: t_cell_cd4_percentage

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**Treg cell CD25+ percentage**  MGP_BCI_003_001 | v1.0

simpleParameter

Unit Measured: %

Description: treg_cell_cd25_percentage

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**T cell CD8+ percentage**  MGP_BCI_004_001 | v1.0

simpleParameter

Unit Measured: %

Description: t_cell_cd8_percentage
**NK cell percentage** MGP_BCI_005_001 | v1.0

*simpleParameter*

**Unit Measured:** %

**Description:** nk_cell_percentage

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**NKT cell percentage** MGP_BCI_006_001 | v1.0

*simpleParameter*

**Unit Measured:** %

**Description:** nkt_cell_percentage

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**CD4+CD44+CD62L- percentage** MGP_BCI_007_001 | v1.0

*simpleParameter*

**Unit Measured:** %
**CD8+CD44+CD62L- percentage**  MGP_BCI_008_001 | v1.0

*simpleParameter*

**Description:** cd4_cd44_cd62l_percentage

**Unit Measured:** %

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

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**B cell CD19+ percentage**  MGP_BCI_009_001 | v1.0

*simpleParameter*

**Description:** cd8_cd44_cd62l_percentage

**Unit Measured:** %

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

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**Mature B cell IgD+ percentage**  MGP_BCI_010_001 | v1.0

*simpleParameter*

**Description:** cd8_cd44_cd62l_percentage

**Unit Measured:** %

**Req. Analysis:** false  **Req. Upload:** true  **Is Annotated:** true
**Unit Measured:** %

**Description:** mature_b_cell_igd_percentage

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**Granulocyte Gr1+ percentage** MGP_BCI_011_001 | v1.0

simpleParameter

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

**Unit Measured:** %

**Description:** granulocyte_gr1_percentage

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**Monocyte percentage** MGP_BCI_012_001 | v1.0

simpleParameter

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

**Unit Measured:** %

**Description:** monocyte_percentage

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**Equipment manufacturer** MGP_BCI_013_001 | v1.0

procedureMetadata

**Req. Analysis:** true  
**Req. Upload:** true  
**Is Annotated:** false
Description: equipment_manufacturer
Options: BD Biosciences, Beckman Coulter,

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**Equipment model** MGP_BCI_014_001 | v1.0

procedureMetadata


Description: equipment_model
Options: LSR II, FC500,

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**Anesthesia used for blood collection** MGP_BCI_015_001 | v1.0

procedureMetadata


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

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**Comment** MGP_BCI_016_001 | v1.0

simpleParameter
Description: comment