FACs Analysis HAS_FAC_003

Purpose

The characterisation of of main leukocyte subsets in peripheral blood cells from mice by flow cytometry.

Reliable values of frequencies of leukocyte clusters are very much dependent on the appropriate preparation, acquisition and gating of leukocytes. This method involves ammonium chloride erythrocyte lyses, thus preventing interference by larger amounts of erythrocytes. For all stainings, a monoclonal antibody to the cell surface glycoprotein CD45 is used to be able to create a CD45+ gate, allowing discrimination of leukocytes from debris, erythrocytes and thrombocytes. Furthermore, staining with propidium iodide (PI) gates out dead cells. Samples are acquired until a number of 30000 living CD45+ cells is reached for each sample (ref Adler and Busch 2007, submitted). Data are compensated analysed and using FlowJo software.

This protocol is part of the EMPReSSslim pipeline and is carried out on a cohort of 10 males and 10 females (age matched) at a time.

Parameters and Metadata

T cell CD4+ percentage HAS_FAC_001_001 | v1.1

simpleParameter

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

Unit Measured: %

Description: T_cell_CD4_percentage

T cell CD8+ percentage HAS_FAC_002_001 | v1.1

simpleParameter

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

Unit Measured: %

Description: T_cell_CD8_percentage

T cell CD3+ percentage HAS_FAC_003_001 | v1.1

simpleParameter

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

Unit Measured: %

Description: T_cell_CD3_percentage

CD25+ percentage of CD4+ T cells HAS_FAC_004_001 | v1.1

simpleParameter

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

Unit Measured: %

Description: CD25_percentage_of_CD4_T_cells

B cell CD19+ percentage HAS_FAC_005_001 | v1.1

simpleParameter

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

Unit Measured: %

Description: B_cell_CD19_percentage

Mature B cells IgD+ percentage HAS_FAC_006_001 | v1.1

simpleParameter

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

Unit Measured: %

Description: Mature_B_cells_IgD_percntage

Granulocyte Gr1+ percentage HAS_FAC_007_001 | v1.1

simpleParameter

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

Unit Measured: %

Description: Granulocyte_Gr1_percentage

NK cell percentage HAS_FAC_008_001 | v1.1

simpleParameter

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

Unit Measured: %

Description: NK_cell_percentage

Monocyte gate HAS_FAC_009_001 | v1.1

simpleParameter

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

Unit Measured: %

Description: Monocyte_gate

Number of leukocytes HAS_FAC_010_001 | v1.1

simpleParameter

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

Unit Measured: count

Description: Number_of_leukocytes

Equipment ID HAS_FAC_011_001 | v1.1

procedureMetadata

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

Description: Equipment_name

Equipment manufacturer HAS_FAC_012_001 | v1.0

procedureMetadata

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

Description: Equipment_manufacturer

Equipment model HAS_FAC_013_001 | v1.0

procedureMetadata

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

Description: Equipment_model

Method of blood collection HAS_FAC_014_001 | v1.0

procedureMetadata

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

Description: Method_of_blood_collection

ID for blood collection SOP HAS_FAC_015_001 | v1.1

procedureMetadata

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

Description: EMPReSSID_for_blood_collection_SOP

Date/time of blood collection HAS_FAC_016_001 | v1.0

procedureMetadata

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

Description: DateTime_of_blood_collection

Sample status HAS_FAC_017_001 | v1.0

procedureMetadata

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

Description: Sample_status

Options: fresh, frozen,

Anaesthesia used for blood collection HAS_FAC_018_001 | v1.0

procedureMetadata

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

Description: Anaesthesia_used_for_blood_collection

Date of procedure HAS_FAC_019_001 | v1.3

procedureMetadata

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

Description: Date_of_measurement

Experimenter ID HAS_FAC_020_001 | v1.0

procedureMetadata

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

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Procedural comments HAS_FAC_021_001 | v1.0

simpleParameter

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