Immune phenotyping in the peripheral blood

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Organisation

Name of the organisation University of Hasselt (UHasselt)
Department Biomedical Research Institute
Country Belgium
Geographical Area Flemish Region

SCOPE OF THE METHOD

The Method relates to	Human health
The Method is situated in	Basic Research
Type of method	In vitro - Ex vivo
Specify the type of cells/tissues/organs	Peripheral blood mononuclear cells

DESCRIPTION

Method keywords

flow cytometry
peripheral blood mononuclear cells
immune cell phenotyping
fluorescence

Scientific area keywords

Immunology
Autoimmunity
human white blood cells
Disease
health

Method description

Peripheral blood mononuclear cells (PBMC) are isolated from the peripheral blood using Ficoll gradient centrifugation. The PBMC are then stained with fluorescently-labelled monoclonal antibodies directed against cell surface or intracellular proteins that can be used to identify specific immune cell subtypes. Hereby, T cell subpopulations, B cell subpopulations, NK cell subpopulations and monocytes can be discriminated.

Lab equipment

Flow cytometer

Method status

Published in peer reviewed journal

PROS, CONS & FUTURE POTENTIAL

Advantages

Multi-parameter.

Modifications

Additional surface or intracellular markers can be added.

REFERENCES, ASSOCIATED DOCUMENTS AND OTHER INFORMATION

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