

# Immune phenotyping in the peripheral blood

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## SCOPE OF THE METHOD

<b>The Method relates to</b>	Human health
<b>The Method is situated in</b>	Basic Research
<b>Type of method</b>	In vitro - Ex vivo
<b>This method makes use of</b>	Human derived cells / tissues / organs
<b>Specify the type of cells/tissues/organs</b>	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

### Associated documents

## PARTNERS AND COLLABORATIONS

### Organisation

**Name of the organisation** University of Hasselt (UHasselt)

**Department** Biomedical Research Institute

**Country** Belgium

**Geographical Area** Flemish Region

*Coordinated by*



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