

30-1076-AC: Anti-CD114 / G-CSFR Monoclonal Antibody (Clone:LMM741) APC Conjugated

Clonality :	Monoclonal
Clone Name :	LMM741
Application :	FACS
Reactivity :	Human
Conjugate :	APC
Gene :	CSF3R
Gene ID :	1441
Uniprot ID :	Q99062
Format :	Purified
Alternative Name :	CSF3R,GCSFR
Isotype :	Mouse IgG1
Immunogen Information :	CHO cells transfected with human CD114

Description

CD114 / G-CSFR (granulocyte colony-stimulating factor receptor, also known as CSF3R) is a type I transmembrane glycoprotein which upon binding of its ligand (G-CSF, granulocyte colony-stimulating factor) homodimerizes and activates signaling transduction to mediate cell proliferation, survival, and differentiation. It is expressed by granulocytes at all stages of their differentiation, as well as by monocytes, dendritic cells, and mature platelets. Among non-hematopoietic cells, it is expressed e.g. by endothelial cells, placenta, trophoblasts, and many tumor cell lines. This antigen is a target for stem cell mobilization for blood stem cell transplantation, for enhancing recovery of myelopoiesis following chemotherapy and in the treatment of patients with severe chronic neutropenia.

Product Info

Amount :	100 Tests
Purification :	Purified by protein-A affinity chromatography
Content :	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	Store at 2-8°C. Do not freeze.

Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

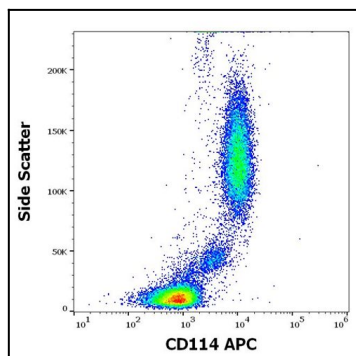


Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD114 (LMM741) APC antibody

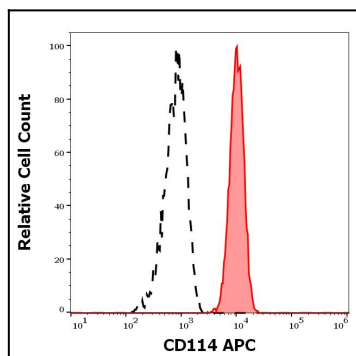


Figure 2: Separation of human neutrophil granulocytes (red-filled) from lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD114 (LMM741) APC antibody