

11-157-C100

Monoclonal Antibody to CD114 / G-CSFR Purified Antibody (0.1 mg)

Clone: LMM741

Isotype: Mouse IgG1

Specificity: The mouse monoclonal antibody LMM741 recognizes CD114 (colony stimulating

factor 3 receptor), a 130 kDa transmembrane glycoprotein expressed on granulocytes and their differentiation stages, on monocytes, platelets, endothelial

cells and placenta. It is absent from lymphocytes and erythrocytes.

HLDA VI; WS Code MA98

Regulatory Status: RUO

Immunogen: CHO cells transfected with human CD114

Species Reactivity: Human

Negative Species: Mouse

Application: Flow Cytometry

Purity: > 95% (by SDS-PAGE)

Purification: Purified by protein-A affinity chromatography

Concentration: 1 mg/ml

Storage Buffer: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4

Storage / Stability: Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial

label.

Expiration: See vial label

Lot Number: See vial label

Background: 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 DATA SHEET

References:

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*Cimato TR, Palka BA, Lang JK, Young RF: LDL cholesterol modulates human CD34+ HSPCs through effects on proliferation and the IL-17 G-CSF axis. PLoS One. 2013 Aug 26;8(8):e73861.

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