

CLM1 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP9948a**Specification**

CLM1 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q8TDQ1](#)**CLM1 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 146722**Other Names**

CMRF35-like molecule 1, CLM-1, CD300 antigen-like family member F, Immune receptor expressed on myeloid cells 1, IREM-1, Immunoglobulin superfamily member 13, IgSF13, NK inhibitory receptor, CD300f, CD300LF, CD300F, CLM1, IGSF13, IREM1, NKIR

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CLM1 Antibody (N-term) Blocking Peptide - Protein Information**Name** CD300LF**Synonyms** CD300F, CLM1, IGSF13, IREM1, NKIR**Function**

Acts as an inhibitory receptor for myeloid cells and mast cells (PubMed:15549731). Positively regulates the phagocytosis of apoptotic cells (efferocytosis) via phosphatidylserine (PS) recognition; recognizes and binds PS as a ligand which is expressed on the surface of apoptotic cells. Plays an important role in the maintenance of immune homeostasis, by promoting macrophage-mediated efferocytosis and by inhibiting dendritic cell-mediated efferocytosis (By similarity). Negatively regulates Fc epsilon receptor-dependent mast cell activation and allergic responses via binding to ceramide and sphingomyelin which act as ligands (PubMed:24035150). May act as a coreceptor for interleukin 4 (IL-4). Associates with and regulates IL-4 receptor alpha-mediated responses by augmenting IL-4- and IL-13-induced signaling (By similarity). Negatively regulates the Toll-like receptor (TLR) signaling mediated by MYD88 and TRIF through activation of PTPN6/SHP-1 and PTPN11/SHP-2 (PubMed:22043923). Inhibits osteoclast formation. Induces macrophage cell death

upon engagement (By similarity).

Cellular Location

Cell membrane; Single-pass type I membrane protein

Tissue Location

Highly expressed in spleen, peripheral blood leukocyte and monocyte, and lung. Weakly expressed in thymus, heart, brain, placenta, liver, skeletal muscle, kidney, pancreas, prostate, testis, ovary, small intestine or colon. Expressed selectively in monocytes and monocyte-related cells.

CLM1 Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

CLM1 Antibody (N-term) Blocking Peptide - Images**CLM1 Antibody (N-term) Blocking Peptide - Background**

CLM1 is an inhibitory receptor of the Ig superfamily expressed on myeloid cells. It mediates negative regulatory signals by recruiting SHP1 (PTPN6; MIM 176883) or SHIP.

CLM1 Antibody (N-term) Blocking Peptide - References

Danik, J.S., et al. Circ Cardiovasc Genet 2(2):134-141(2009) Alvarez-Errico, D., et al. J. Immunol. 178(2):808-816(2007)