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CLM1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9948a

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q8TDQ1
Reactivity	Human
Predicted	Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB22264
Calculated MW	32335
Antigen Region	56-84

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
Target/Specificity	This CLM1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 56-84 amino acids from the N-terminal region of human CLM1.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CLM1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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.

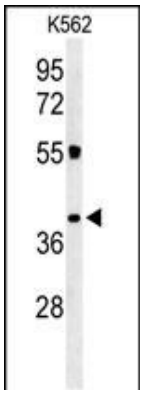
Background

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.

References

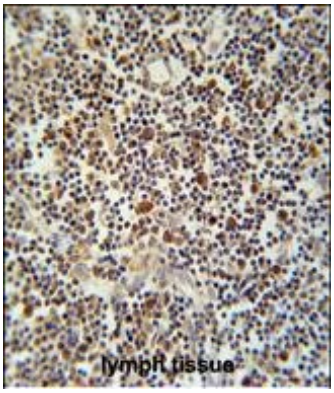
Danik, J.S., et al. Circ Cardiovasc Genet 2(2):134-141(2009)
Alvarez-Errico, D., et al. J. Immunol. 178(2):808-816(2007)

Images

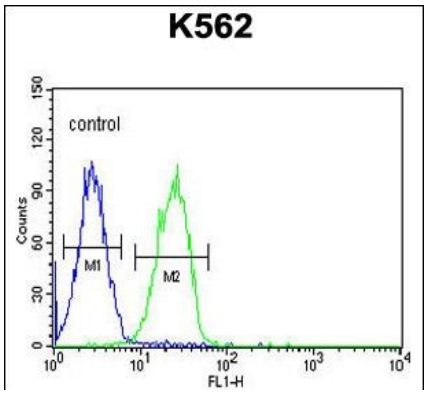


Western blot analysis of CLM1 Antibody (N-term) (Cat. #AP9948a) in K562 cell line lysates (35ug/lane). CLM1 (arrow) was detected using the purified Pab.

CLM1 Antibody (N-term) (Cat. #AP9948a) immunohistochemistry analysis in formalin fixed and paraffin embedded human lymph tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the CLM1 Antibody (N-term) for immunohistochemistry.



Clinical relevance has not been evaluated.



CLM1 Antibody (N-term) (Cat. #AP9948a) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.