

# CD300f Polyclonal Antibody

Catalog # AP68931

#### **Product Information**

Application WB
Primary Accession Q8TDQ1
Reactivity Human
Host Rabbit
Clonality Polyclonal
Calculated MW 32335

#### **Additional Information**

**Gene ID** 146722

Other Names CD300LF; CD300F; CLM1; IGSF13; IREM1; NKIR; 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; CD an

**Dilution** WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other

applications.

Format Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium

azide.

Storage Conditions -20°C

#### **Protein Information**

Name CD300LF

Synonyms CD300F, CLM1, IGSF13, IREM1, NKIR

**Function** Acts as an inhibitory receptor for myeloid cells and mast cells

(PubMed:<u>15549731</u>). 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:<u>22043923</u>). 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

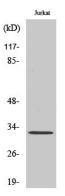
lung. Weakly expressed in thymus, heart, brain, placenta, liver, skeletal muscle, kidney, pancreas, prostate, testis, ovary, small intestine or colon.

Expressed selectively in monocytes and monocyte-related cells.

## **Background**

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).

### **Images**



Western Blot analysis of various cells using CD300f Polyclonal Antibody

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