10320 Camino Santa Fe, Suite G
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# CD300f Polyclonal Antibody
**Catalog # AP73658**

## Specification

### CD300f Polyclonal Antibody - Product Information

| | |
|---|---|
| Application | **WB, IHC-P** |
| Primary Accession | Q8TDQ1 |
| Reactivity | **Human** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |

### CD300f Polyclonal Antibody - 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; CD300f

**Dilution**
WB~~Western Blot: 1/500 - 1/2000. IHC-p: 1/100-1/300. ELISA: 1/20000. Not yet tested in other applications.
IHC-P~~N/A

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

**Storage Conditions**
-20℃

### CD300f Polyclonal Antibody - Protein Information

**Name** CD300LF

**Synonyms** CD300F, CLM1, IGSF13, IREM1, NKIR

**Function**
Acts as an inhibitory receptor for myeloid cells and mast cells (PubMed:<a href="http://www.uniprot.org/citations/15549731" target="_blank">15549731</a>). 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:<a href="http://www.uniprot.org/citations/24035150" target="_blank">24035150</a>). 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:<a href="http://www.uniprot.org/citations/22043923" target="_blank">22043923</a>). Inhibits osteoclast formation. Induces macrophage cell death upon engagement (By similarity).

**Cellular Location**
Cell membrane; Single-pass type I membrane protein

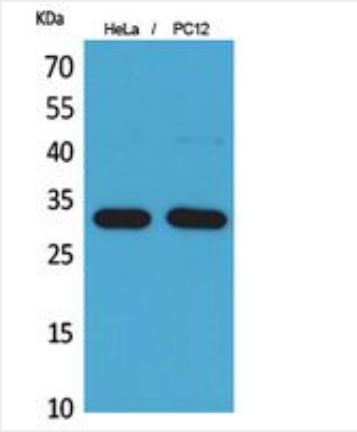
**Tissue Location**
Highly expressed in spleen, peripheral blood leukocyte and monocyte, and lung. Weakly expressed in thymus, heart, brain, placenta, liver, skeletal muscle, kidney, pancreas, prostate, testis, ovary, small intestine or colon. Expressed selectively in monocytes and monocyte-related cells.

## CD300f Polyclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## CD300f Polyclonal Antibody - Images




Western Blot analysis of HeLa, PC12 cells using CD300f Polyclonal Antibody.. Secondary antibody was diluted at 1:20000

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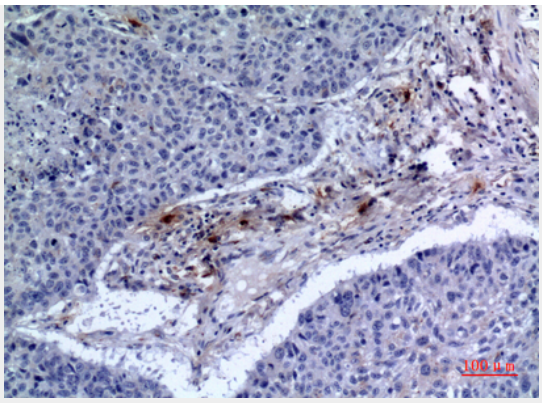
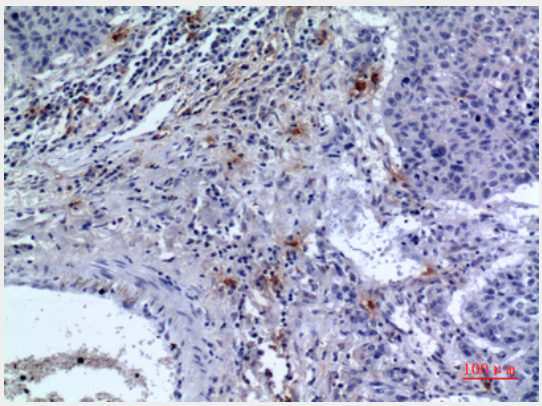


Immunohistochemical analysis of paraffin-embedded human-lung, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded human-lung, antibody was diluted at 1:100

**CD300f Polyclonal Antibody - 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).