

Recombinant Rat CD300LF Protein (19-181 aa), His-SUMO-Myc-tagged

Cat. No. CD300LF-2259R **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant Rat CD300LF Protein (19-181 aa) is produced by E. coli expression system. This protein is fused with a 10xHis-SUMO tag at the N-terminal and a Myc tag at the C-terminal. Protein Description: Partial.

Species

Rat

Source

E.coli

ProteinLength

19-181 aa

Description

Acts as an inhibitory receptor for myeloid cells and mast cells. 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. Negatively regulates Fc epsilon receptor-dependent mast cell activation and allergic responses via binding to ceramide and sphingomyelin which act as ligands. 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. Negatively regulates the Toll-like receptor (TLR) signaling mediated by MYD88 and TRIF through activation of PTPN6/SHP-1 and PTPN11/SHP-2. Inhibits osteoclast formation. Induces macrophage cell death upon engagement.

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Form	Tris-based buffer,50% glycerol
Molecular Mass	38.3 kDa
AA Sequence	AQDPVTGPEEVSGYEQGSLTVWCRYGSWWKDYSKYWCRGPKRSSCEIRVETDAS ERLVKENHVSIRDDQTNFTFTVTMEDLRMSDAGIYWCGITKAGYDHMFKVHVSINPV PTTPTTTSTTTIFTVTTTVKETSTLSTQTSHYSDNRYDSGGVGDGNGFLDLS
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA will be sent along with the products. Please refer to it for detailed information.
GENE INFORMATION	
Gene Name	Cd300lf Cd300 molecule-like family member F [Rattus norvegicus]
Official Symbol	CD300LF
Synonyms	CD300LF; CMRF35-like molecule 1; CLM-1; CD300 antigen like family member F; CD300f; RGD1309733;
Gene ID	287818

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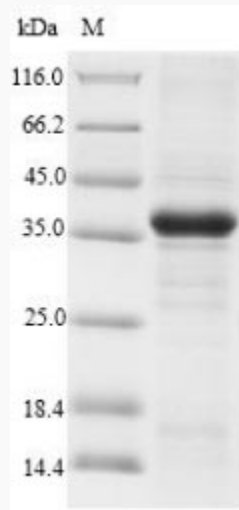
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mRNA Refseq [NM_001025111](#)

Protein Refseq [NP_001020282](#)

UniProt ID [Q566E6](#)



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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