

Recombinant Human CD300LB Protein, His-tagged

Cat. No. CD300LB-017H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD300LB Protein with His tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	CD300LB, also known as CD300b, LMIR5, CLM-7, and IREM-3, is a glycoprotein member of the immunoglobulin superfamily. LMIR5 is expressed on the surface of myeloid lineage cells. It forms noncovalent cis-homodimers and cis-heterodimers with other CD300 family proteins, and the composition of these dimers affects the cellular response. Antibody cross-linking of LMIR5 induces mast cell granule release and cytokine production as well as its tyrosine phosphorylation of LMIR5 (in human). LMIR5 interacts with TIM1 and TIM4 which regulate T cell activation and are themselves binding partners. TIM1 interactions with LMIR5 mediate mast cell activation and the accumulation of neutrophils at sites of TIM1 up-regulation on damaged renal tubule epithelial cells. Acts as an activating immune receptor through its interaction with ITAM-bearing adapter TYROBP, and also independently by recruitment of GRB2.
Molecular Mass	~18 kDa
AA Sequence	MIQGPESVRAPEQGS�TVQCHYKQGWETIKWWCRGVRWDTCKILIIETRGSEQGE KSDRVSIKDNQKDRFTFTMEGLRRDDADVWCGIERRGPDŁGTQVKVIVDPEGAA STTASSPTNSNMAVFIGSHKRNHY

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Purity	Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).
Notes	For research use only, not for use in diagnostic procedure.
Storage	Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.
Storage Buffer	PBS, 4M Urea, pH7.4

GENE INFORMATION

Gene Name	CD300LB CD300 molecule-like family member b [Homo sapiens (human)]
Official Symbol	CD300LB
Synonyms	CD_antigen=CD300b; CD300 antigen-like family member B; CD300 molecule-like family member b; CD300B; CLM 7; CLM7; CLM7_HUMAN; CMRF35 A2; CMRF35-like molecule 7; CMRF35A2; Immune receptor expressed on myeloid cells 3; IREM 3; IREM3; Leukocyte mono-Ig-like receptor 5; LMIR5; TREM 5; TREM5; Triggering receptor expressed on myeloid cells 5; UNQ2530/PRO6029;
Gene ID	124599
mRNA Refseq	NM_174892
Protein Refseq	NP_777552
MIM	610705
UniProt ID	J9JID3

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