CD300LF Cell Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	CD300f/CD300LF, Cell Lysate
Full Product Name	Human CD300f/CD300LF HEK293 Overexpression Lysate
Product Gene Name	CD300LF cell lysate
Product Synonym Names	Human CD300LF/LMIR3 HEK293 Cell Lysate (WB positive control); CD300 molecule-like family member f; Human CD300f Overexpression Lysate; Human CLM-1 Overexpression Lysate; Human CLM1 Overexpression Lysate; Human IgSF13 Overexpression Lysate; Human IREM-1 Overexpression Lysate; Human IREM1 Overexpression Lysate; Human LMIR3 Overexpression Lysate; Human NKIR Overexpression Lysate
Sequence	Met1-Leu15 5
Host	HEK293 Cells
Form/Format	1x Sample Buffer (1x modified RIPA buffer+1x SDS loading buffer). Modified RIPA Lysis Buffer: 50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF.
Preparation and Storage	Store at 4 degree C for up to twelve months from date of receipt. After re-dissolution, aliquot and store at -80 degree C for up to twelve months. Avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt.
Molecular Weight	32,335 Da
Sequence Positions	374aa
Chromosome Location	Chromosome: 17; NC_000017.10 (72690452..72709108, complement). Location: 17q25.1
OMIM	609807
3D Structure	ModBase 3D Structure for Q8TDQ1
Species	Human
Recommend Usage	1. Centrifuge the tube for a few seconds and ensure the pellet at the bottom of the tube.**2. Re-dissolve the pellet using 200uL pure water and boil for 2-5 min.**
Sequence Construction	A DNA sequence encoding the human CD300LF (NP_620587.2) (Met1-Leu155) was expressed with the Fc region of human IgG1 at the C-terminus.
Preparation Method	Cell lysate was prepared by homogenization of the over-expressed cells in ice-cold modified RIPA Lysis Buffer with cocktail of protease inhibitors. Cell debris was removed by centrifugation. Protein concentration was determined by Bradford assay (protein assay, Microplate Standard assay). The cell lysate was boiled for 5 min in 1 x SDS loading buffer (50mM Tris-HCl pH 6.8, 12.5% glycerol, 1% sodium dodecylsulfate, 0.01% bromophenol blue) containing 5% b-mercaptoethanol, and lyophilized.
Product Categories/Family for CD300LF cell lysate	ITIM/ITAM Immunoreceptors and Related Molecules
Applications Tested/Suitable for CD300LF cell lysate	Western Blot (WB)
Application Notes for CD300LF cell lysate	WB: Use at an assay dependent dilution.
Related Product Information for CD300LF cell lysate	This Human CD300f/CD300LF overexpression lysate was created in HEK293 Cells and intented for use as a Western blot (WB) positive control. Purification of CD300f/CD300LF protein from the overexpression lysate was verified.

Other Notes	Small volumes of CD300LF cell lysate vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CD300LF purchase	MBS8115612 is a cell lysate targeting CD300LF. Also known as Human CD300f/CD300LF HEK293 Overexpression Lysate. Host: HEK293 Cells.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD300LF. It may not necessarily be applicable to this product.

NCBI GI #	38455398
NCBI GeneID	146722
NCBI Accession #	NP_620587.2
UniProt Primary Accession #	Q8TDQ1
UniProt Secondary Accession #	Q3Y6P0; Q6UX24; Q7Z6A6; Q7Z7I4; Q7Z7I5; Q8N6D0; Q8NAF5; B2RCL2; C9JDN3
UniProt Related Accession #	Q8TDQ1
GenBank Nucleotide #	NM_139018.3
NCBI Official Full Name	CMRF35-like molecule 1
NCBI Official Synonym Full Names	CD300 molecule-like family member f
NCBI Official Symbol	CD300LF
NCBI Official Synonym Symbols	CLM1; NKIR; CLM-1; IREM1; CD300f; IREM-1; IgSF13
UniProt Protein Name	CMRF35-like molecule 1
UniProt Synonym Protein Names	CD300 antigen-like family member F; Immune receptor expressed on myeloid cells 1; IREM-1; Immunoglobulin superfamily member 13; IgSF13; NK inhibitory receptor
Protein Family	CMRF35-like molecule
UniProt Gene Name	CD300LF
UniProt Synonym Gene Names	CD300F; CLM1; IGSF13; IREM1; NKIR; CLM-1; IREM-1; IgSF13
UniProt Entry Name	CLM1_HUMAN
NCBI Protein Information	CMRF35-like molecule 1; NK inhibitory receptor; inhibitory receptor IREM1; CD300 antigen like family member F; CD300 antigen-like family member F; immunoglobin superfamily member 13; CD300 molecule like family member f; immunoglobulin superfamily member 1
NCBI Summary for CD300LF	CD300LF 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 (INPP5D; MIM 601582) (Sui et al., 2004 [PubMed 15184070]; Alvarez-Errico et al., 2004 [PubMed 15549731]).[supplied by OMIM, Mar 2008]
UniProt Comments for CD300LF	IREM-1: Acts as an inhibitory receptor for myeloid cells and mast cells. Inhibits osteoclast formation. Belongs to the CD300 family. 6 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Receptor, misc.; Immunoglobulin superfamily Chromosomal Location of Human Ortholog: 17q25.1 Cellular Component: integral to membrane; plasma membrane Biological Process: immune system process
Research Articles on CD300LF	**1.** The data suggest that the neuroprotective role of CD300f would be the result of a complex network of cell interactions.

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