

Recombinant Human LILRB1 protein, Fc & Avi-tagged, Biotinylated

Cat. No. LILRB1-0622H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated Human LILRB1 , Fc Tag is expressed from human 293 cells (HEK293). It contains AA Gly 24 - His 458 (Accession # D9IDM5-1). Biotinylation of this product is performed using Avitag technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin. The biotin to protein ratio is 0.5-1 as determined by the HABA assay.
Species	Human
Source	HEK293
ProteinLength	Gly 24 - His 458
Description	CD85 antigen-like family member J (CD85J) is also known as Leukocyte immunoglobulin-like receptor subfamily B member 1 (LILRB1 or LIR-1), Immunoglobulin-like transcript 2 (ILT-2), Monocyte/macrophage immunoglobulin-like receptor 7 (MIR7), which belongs to leukocyte immunoglobulin-like receptor (LIR) family. CD85J / LILRB1 Contains 4 Ig-like C2-type (immunoglobulin-like) domains. CD85J / LIR-1 is expressed predominantly on B-cells and monocytes. CD85J is receptor for class I MHC antigens and recognizes a broad spectrum of HLA-A, HLA-B, HLA-C and HLA-G alleles and is also receptor for H301/UL18, a human cytomegalovirus class I MHC homolog. Ligand binding results in inhibitory signals and down-regulation of the immune response. CD85J / LILRB1 interaction with HLA-B or HLA-E leads to inhibition of the signal triggered by FCER1A and inhibits serotonin

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release. CD85J / LILRB1 inhibits FCGR1A-mediated phosphorylation of cellular proteins and mobilization of intracellular calcium ions.

Predicted N Terminal	Gly 24
Form	Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, pH7.5, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 75.6 kDa. As a result of glycosylation, the protein migrates as 100-116 KDa under reducing (R) condition, and 150 KDa under non-reducing (NR) condition (SDS-PAGE).
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. No activity loss is observed after storage at: 4-8°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
Shipping	Powder,RT
Conjugation	Biotin

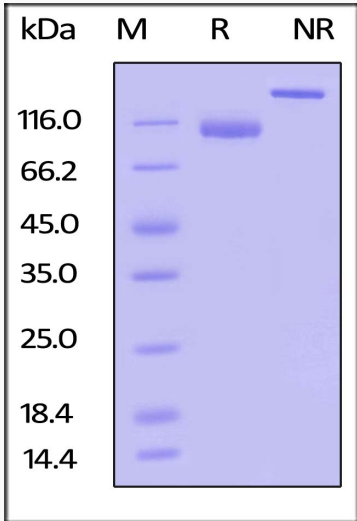
GENE INFORMATION

Gene Name **LILRB1 leukocyte immunoglobulin like receptor B1 [Homo sapiens (human)]**

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Official Symbol	LILRB1
Synonyms	ILT2; LIR1; MIR7; PIRB; CD85J; ILT-2; LIR-1; MIR-7; PIR-B; leukocyte immunoglobulin-like receptor subfamily B member 1; CD85 antigen-like family member J; Ig-like transcript 2; leukocyte Ig-like receptor B1; leukocyte immunoglobulin-like receptor subfamily B member 1 soluble isoform; leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 1; monocyte/macrophage immunoglobulin-like receptor 7; myeloid inhibitory receptor 7
Gene ID	10859
mRNA Refseq	NM_001081637.2
Protein Refseq	NP_001075106.2
UniProt ID	Q8NHL6
SDS-PAGE	 Biotinylated Human LILRB1 , Fc Tag on SDS-PAGE under reducing (R) and no-

reducing (NR) conditions. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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