

Cynomolgus LILRB1(ILT2) Protein; hFc Tag

Product Information

Product Name	Cynomolgus LILRB1(ILT2) Protein; hFc Tag
Storage temp	Store at $\leq -70^{\circ}\text{C}$, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Catalog# / Size	GM-88763RP-100 / 100 μg GM-88763RP-1000 / 1 mg

Protein Information

Alternative Names	CD85J, CD85, ILT2, LIR1, MIR7
Source	Cynomolgus LILRB1(ILT2) Protein; hFc Tag (GM-88763RP) is expressed from human 293 cells (HEK-293). It contains AA Gly 41 - His 474 (Accession # XP_045236898.1). This protein carries a hFc tag at the C-terminus.
Purity	> 90% as determined by SDS-PAGE
Endotoxin	< 1 EU/ μg , determined by LAL gel clotting assay
Predicted Mol Mass	73.0 kDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH 7.2–7.4.
Description	LILRB1 is a transmembrane receptor expressed on monocytes, dendritic cells, B cells, T cells, and NK cells. It belongs to the leukocyte immunoglobulin-like receptor (LILR) family and functions as an inhibitory receptor. LILRB1 has ITIMs in its cytoplasmic tail that recruit phosphatases such as SHP-1/2 upon engagement, dampening activating signals and maintaining immune tolerance. Ligands include classical and non-classical MHC I molecules (e.g., HLA-G, HLA-E) and certain viral proteins. LILRB1 ITIMs recruit SHP-1/2 upon ligand binding, leading to dephosphorylation of signaling intermediates and attenuation of PI3K/AKT and MAPK pathways. Inhibition reduces NK cell cytotoxicity, modulates dendritic cell maturation, and affects T cell activation and cytokine production. Crosstalk with other receptors tunes responses, balancing tolerance and immunity. Dysregulation of LILRB1 signaling is linked to tumor immune evasion and chronic infections, shaping adaptive and innate immunity.

Figures

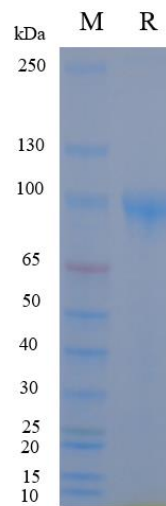


Figure 1 | On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

Related Products

LILRB2(ILT4)	
H_LILRB2(ILT4) Reporter Jurkat Cell Line	H_LILRB2(ILT4) CHO-K1 Cell Line
H_LILRB2(ILT4) HEK-293 Cell Line	
Anti-H_LILRB2(ILT4) hIgG4 Antibody(MK-4830)	
Cynomolgus LILRB2 Protein; His Tag	Human LILRB2 Protein; His Tag
LILRB1(ILT2)	
H_LILRB1(ILT2) Reporter Jurkat Cell Line	H_LILRB1(ILT2) CHO-K1 Cell Line
H_LILRB1(ILT2) HEK-293 Cell Line	Rhesus_LILRB1 CHO-K1 Cell Line
Anti-LILRB1(ILT2) mIgG1 Antibody(12D12)	
Human LILRB1(ILT2) Protein; hFc Tag(D9IDM8-1)	Human LILRB1(ILT2) Protein; His Tag(D9IDM8-1)
Human LILRB1(ILT2) Protein; His Tag(Q8NHL6-1)	
HLA-G	
H_HLA-G1 CHO-K1 Cell Line	H_HLA-G1 HEK-293 Cell Line
H_HLA-G1 MC38 Cell Line	H_HLA-G1 OKT3 CHO-K1 Cell Line
H_HLA-G1 PDL1 MC38(mouse PDL1 KO) Cell Line	H_HLA-G1 SK-OV3 Cell Line
Rhesus_MAMU-AG HEK-293 Cell Line	
Anti-H_HLA-G1 hIgG1 Antibody(38373)	
LILRB4(ILT3)	
H_LILRB4(ILT3) CHO-K1 Cell Line	H_LILRB4(ILT3) HEK-293 Cell Line
LILRB5	
H_LILRB5 CHO-K1 Cell Line	
LILRB3(ILT5)	
H_LILRB3 Reporter Jurkat Cell Line	H_LILRB3(ILT5) CHO-K1 Cell Line
H_LILRB3(ILT5) HEK-293 Cell Line	
Anti-LILRB3 hIgG1 Antibody(7C5)	