Rhesus macaque LILRB1/CD85j/ILT2 Protein

Cat. No. LIL-CM2B3

Description

Source	Recombinant Rhesus macaque LILRB1/CD85j/ILT2 Protein is expressed from HEK293 with hFc tag at the C-Terminus.
	It contains Met1-His474.
Accession	NP_001035762.2
Molecular Weight	The protein has a predicted MW of 75.2 kDa. Due to glycosylation, the protein migrates to 80-90 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

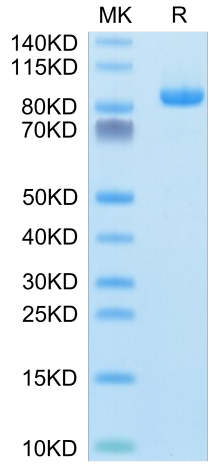
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

LILRB1, also known as CD85j and ILT2, is a 110 kDa transmembrane glycoprotein in the LILR immunoregulatory protein family. Mature human LILRB1 consists of a 438 amino acid (aa) extracellular domain (ECD) with 4 tandem Ig-like domains, a 21 aa transmembrane segment, and a 168 aa cytoplasmic domain with 4 inhibitory ITIM motifs.LILRB1 is a receptor for class I MHC antigens. Recognizes a broad spectrum of HLA-A, HLA-B, HLA-C, HLA-G and HLA-F alleles. Receptor for H301/UL18, a human cytomegalovirus class I MHC homolog. Ligand binding results in inhibitory signals and down-regulation of the immune response.

Assay Data

Bis-Tris PAGE



Rhesus macaque LILRB1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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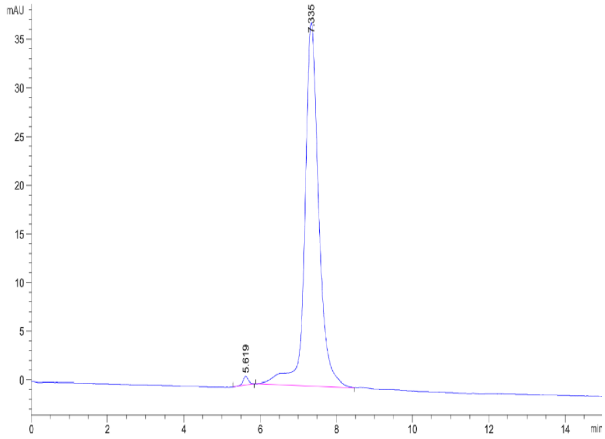
Assay Data



The purity of Rhesus macaque LILRB1 is greater than 95% as determined by SEC-HPLC.

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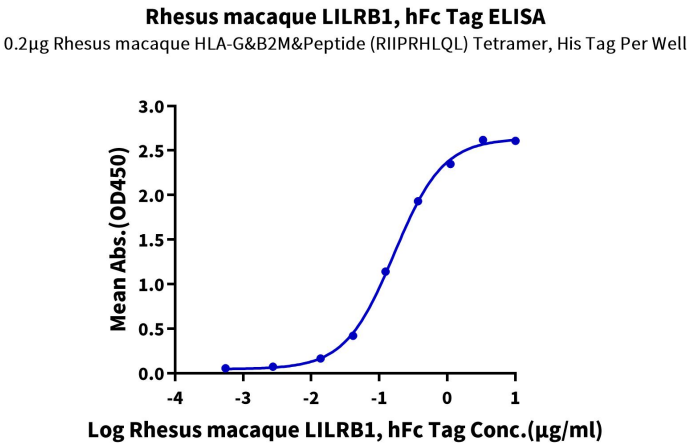
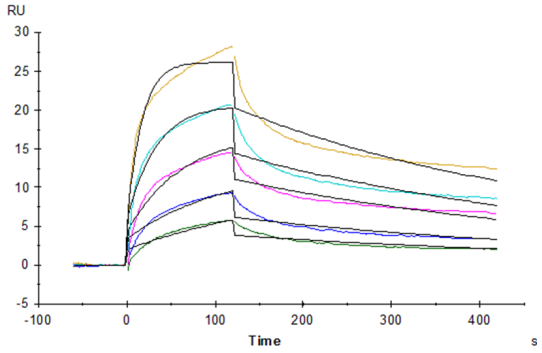
Assay Data

ELISA Data



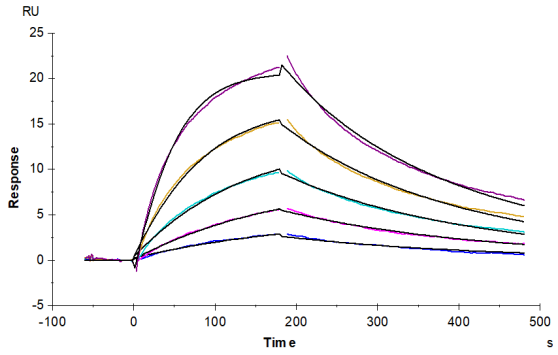
Immobilized Rhesus macaque HLA-G&B2M&Peptide (RIIPRHLQL) Tetramer, His Tag at 2μg/ml (100μl/well) on the plate. Dose response curve for Rhesus macaque LILRB1, hFc Tag with the EC50 of 0.17μg/ml determined by ELISA (QC Test).

SPR Data



Rhesus macaque LILRB1, hFc Tag captured on CM5 Chip via Protein A can bind Rhesus macaque HLA-G&B2M&Peptide (RIIPRHLQL) Tetramer, His Tag with an affinity constant of 1.74 nM as determined in SPR assay (Biacore T200).

SPR Data



Anti-LILRB1 Antibody immobilized on CM5 Chip can bind Rhesus macaque LILRB1, hFc Tag with an affinity constant of 47.69 nM as determined in SPR assay (Biacore T200).