Human LILRB1/CD85j/ILT2 Domain1&2 Protein

Cat. No. LIL-HM11D

Description

Source	Recombinant Human LILRB1/CD85j/IL-T2 Domain1&2 Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Gly24-Gly221.
Accession	Q8NHL6-1
Molecular Weight	The protein has a predicted MW of 23.1 kDa. Due to glycosylation, the protein migrates to 25-30 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

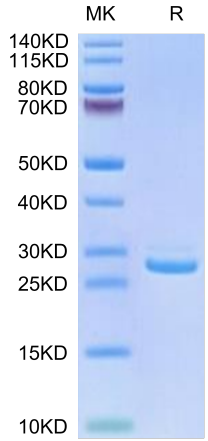
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled 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 IL-T2, 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.

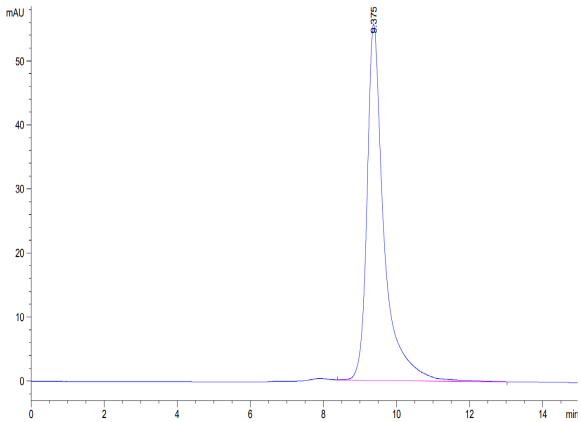
Assay Data

Bis-Tris PAGE



Human LILRB1 Domain1&2 on Bis-Tris PAGE under reduced conditions. The purity is greater than 95%.

SEC-HPLC



The purity of Human LILRB1 Domain1&2 is greater than 95% as determined by SEC-HPLC.

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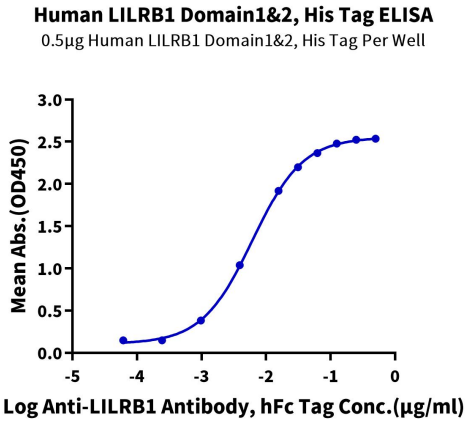
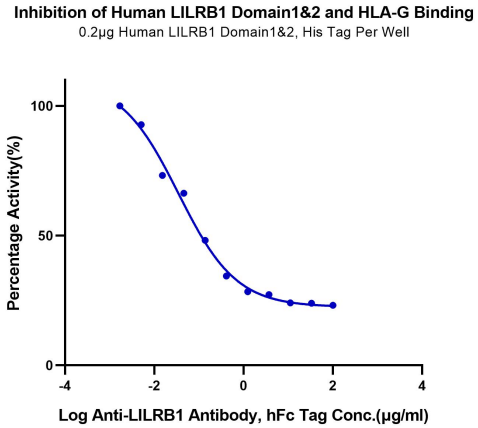
Assay Data

ELISA Data



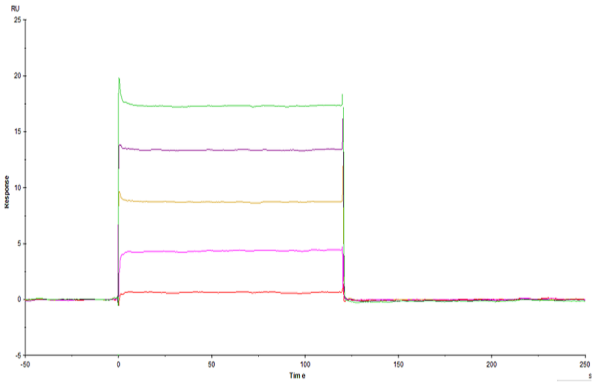
Immobilized Human LILRB1 Domain1&2, His Tag at 5μg/ml (100μl/Well) on the plate. Dose response curve for Anti-LILRB1 Antibody, hFc Tag with the EC50 of 6.1ng/ml determined by ELISA (QC Test).

Blocking Data



Serial dilutions of Anti-LILRB1 Antibody were added into Biotinylated Human HLA-G Complex Tetramer, His Tag : Human LILRB1 Domain1&2, His Tag binding reactioins. The half maximal inhibitiory concentration (IC50) is 34.6ng/ml.

SPR Data



Human HLA-G Tetramer captured on CM5 Chip can bind Human LILRB1 Domain1&2, His Tag with an affinity constant of 1.9μM as determined in SPR assay (Biacore T200).