Datasheet for ABIN7275164

LILRB1 Protein (AA 24-221) (His tag)

5 Images

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Overview

Quantity:	100 µg
Target:	LILRB1
Protein Characteristics:	AA 24-221
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LILRB1 protein is labelled with His tag.

Product Details

Purpose:	Human LILRB1/CD85j/ILT2 Domain1 & 2 Protein
Sequence:	Gly24-Gly221
Characteristics:	Recombinant Human LILRB1/CD85j/IL-T2 Domain1 & 2 Protein is expressed from HEK293 with His tag at the C-Terminus.It contains Gly24-Gly221.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human LILRB1 Domain1&2, His Tag at 1µg/ml (100µl/Well) on the plate. Dose response curve for Anti-LILRB1 Antibody, hFc Tag with the EC50 of 8.6ng/ml determined by ELISA. The affinity constant of 1.9µM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

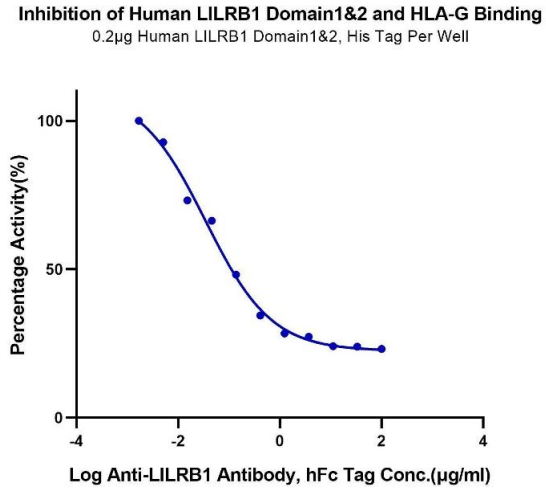
Target:	LILRB1
Alternative Name:	LILRB1 (LILRB1 Products)
Background:	LILRB1, also known as CD85j and IL-T2, is a 110 kDa transmembrane glycoprotein in the LILR immunoregulatory protein family. Mature human LILRB1 consists of a 438 amino acid (aa) extracellular domain (ECD) with 4 tandem Ig-like domains, 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.
Molecular Weight:	23.1 kDa. Due to glycosylation, the protein migrates to 25-30 kDa based on Tris-Bis PAGE result.
Pathways:	Cellular Response to Molecule of Bacterial Origin, Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process, Production of Molecular Mediator of Immune Response

Application Details

Restrictions:	For Research Use only

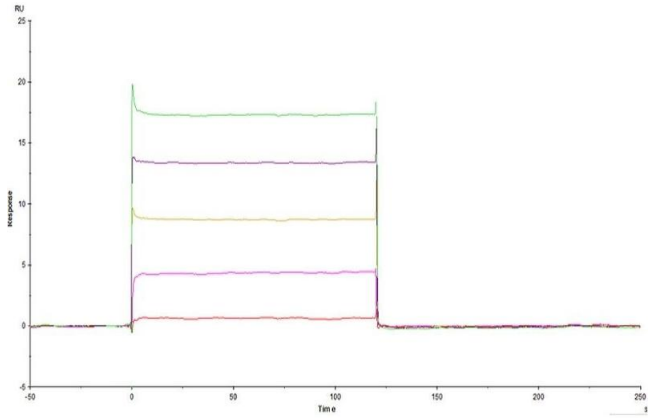
Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months after reconstitution., 2-8°C for 2-7 days after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



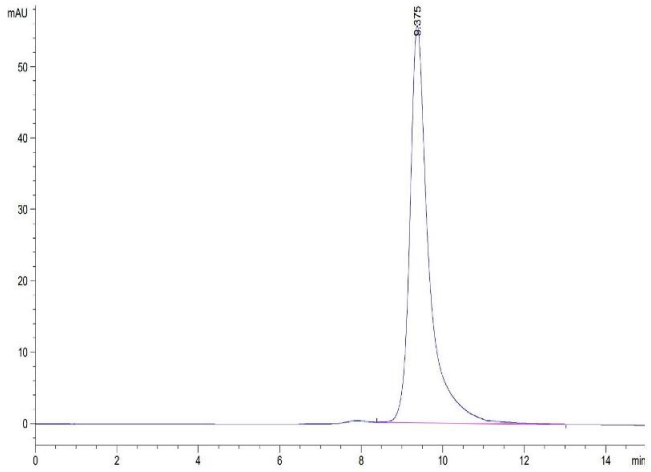
Binding Studies

Image 1. 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 34.6 ng/mL.



Surface Plasmon Resonance

Image 2. 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).



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 3. The purity of Human LILRB1 Domain1&2 is greater than 95 % as determined by SEC-HPLC.

Please check the product details page for more images. Overall 5 images are available for ABIN7275164.