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Datasheet for ABIN7275191

LILRB4 Protein (AA 22-257) (His-Avi Tag)

4 Images

Overview

Quantity:	100 µg
Target:	LILRB4
Protein Characteristics:	AA 22-257
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LILRB4 protein is labelled with His-Avi Tag.

Product Details

Purpose:	Human LILRB4/CD85k/ILT3 Protein
Sequence:	Gln22-His257
Characteristics:	Recombinant Human LILRB4/CD85k/ILT3 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.It contains Gln22-His257.
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 LILRB4, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-LILRB4 Antibody, hFc Tag with the EC50 of 7.8ng/ml determined by ELISA. The affinity constant of 11.87 nM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

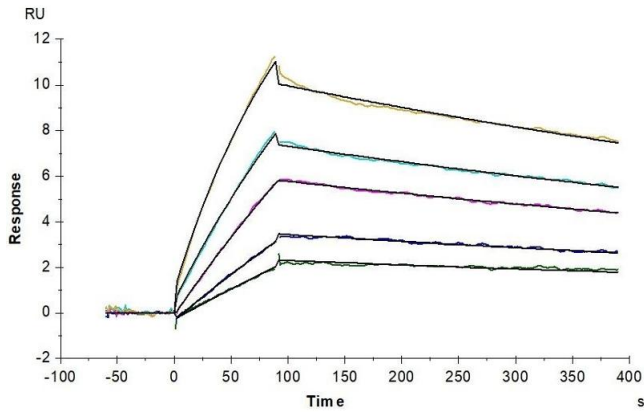
Target:	LILRB4
Alternative Name:	LILRB4 (LILRB4 Products)
Background:	LILRB4, also known as CD85k and LIR-5, ILT-3, is an approximately 60 kDa transmembrane glycoprotein that negatively regulates immune cell activation. Mature human ILT-3 consists of a 238 amino acid (aa) extracellular domain with two Ig-like domains, a 21 aa transmembrane segment, and a 168 aa cytoplasmic domain with 3 immunoreceptor tyrosine-based inhibitory motifs (ITIM). LILRB4 is receptor for class I MHC antigens. Recognizes a broad spectrum of HLA-A, HLA-B, HLA-C and HLA-G alleles.
Molecular Weight:	28.6 kDa. Due to glycosylation, the protein migrates to 38-42 kDa based on Tris-Bis PAGE result.

Application Details

Restrictions:	For Research Use only
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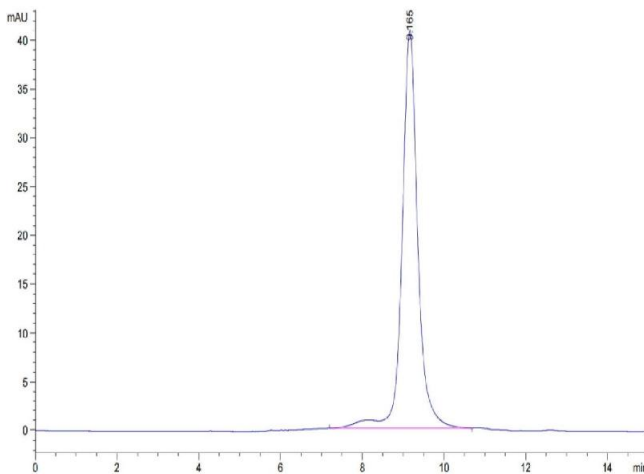
Handling

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



Surface Plasmon Resonance

Image 1. Human APOE4, hFc Tag captured on CM5 Chip via Protein A can bind Human LILRB4, His Tag with an affinity constant of 11.87 nM as determined in SPR assay (Biacore T200).



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Human LILRB4 is greater than 95 % as determined by SEC-HPLC.



SDS-PAGE

Image 3. Human LILRB4 on Tris-Bis PAGE under reduced conditions. The purity is greater than 95 % .

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7275191.