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Datasheet for ABIN7275650

SIRPA Protein (AA 31-370) (His tag)

4 Images

Overview

Quantity:	100 µg
Target:	SIRPA
Protein Characteristics:	AA 31-370
Origin:	Cynomolgus
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SIRPA protein is labelled with His tag.

Product Details

Purpose:	Cynomolgus SIRP alpha/CD172a Protein
Sequence:	Glu31-Arg370
Characteristics:	Recombinant Cynomolgus SIRP alpha/CD172a Protein is expressed from HEK293 with His tag at the C-Terminus.It contains Glu31-Arg370.
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 Cynomolgus SIRP alpha, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-SIRP alpha Antibody, hFc Tag with the EC50 of 8.3ng/ml determined by ELISA. The affinity constant of 63.27 nM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

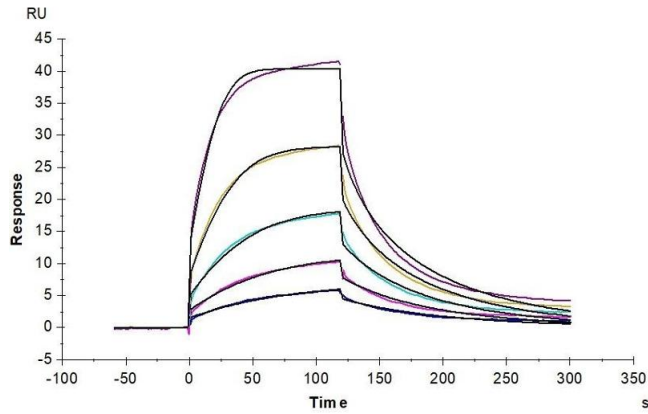
Target:	SIRPA
Alternative Name:	SIRP alpha (SIRPA Products)
Background:	Signal regulatory protein α (SIRP α) is a regulatory membrane glycoprotein from SIRP family expressed mainly by myeloid cells and also by stem cells or neurons. SIRP α acts as inhibitory receptor and interacts with a broadly expressed transmembrane protein CD47 also called the "don't eat me" signal. Cancer cells highly expressed CD47 that activate SIRP α and inhibit macrophage-mediated destruction.
Molecular Weight:	38.2 kDa. Due to glycosylation, the protein migrates to 60-70 kDa based on Tris-Bis PAGE result.
NCBI Accession:	NP_001271679

Application Details

Restrictions:	For Research Use only
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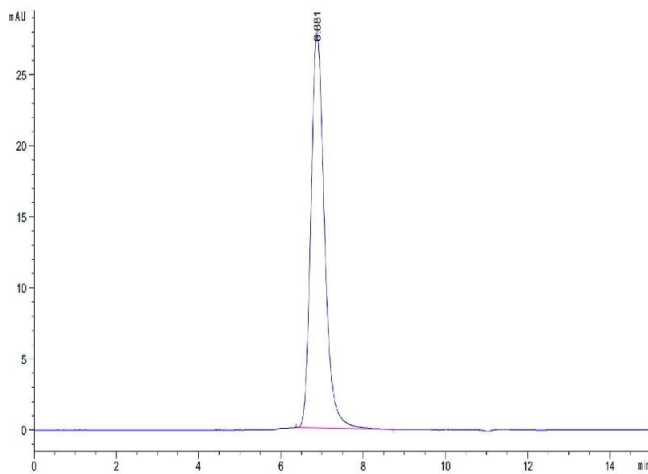
Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μ g/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22 μ m 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. Cynomolgus SIRP alpha, His Tag immobilized on CM5 Chip can bind Cynomolgus /Rhesus macaque CD47, His Tag with an affinity constant of 63.27 nM as determined in SPR assay (Biacore T200).

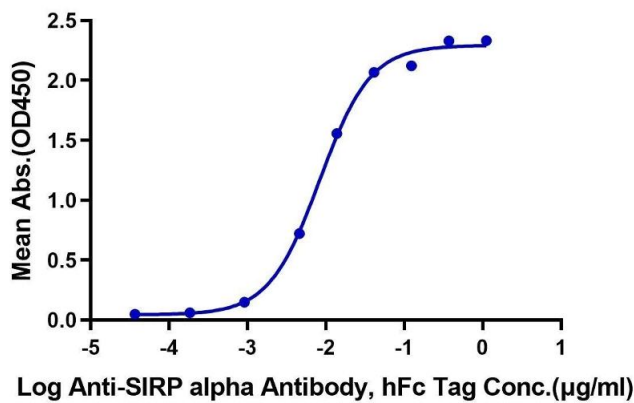


Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Cynomolgus SIRP alpha is greater than 95 % as determined by SEC-HPLC.

Cynomolgus SIRP alpha, His Tag ELISA

0.05 µg Cynomolgus SIRP alpha, His Tag Per Well



ELISA

Image 3. Immobilized Cynomolgus SIRP alpha, His Tag at 0.5 µg/mL (100 µL/Well) on the plate. Dose response curve for Anti-SIRP alpha Antibody, hFc Tag with the EC50 of 8.3 ng/mL determined by ELISA.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7275650.