

Datasheet for ABIN7275652

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



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8 Images

Overview

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

Product Details

Purpose:	Human SIRP alpha/CD172a Protein
Sequence:	Glu31-Arg370
Characteristics:	Recombinant Human 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 Human SIRP alpha, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Human CD47, hFc Tag with the EC50 of 38.1ng/ml determined by ELISA. The affinity constant of 20.6nM 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:	38.1 kDa. Due to glycosylation, the protein migrates to 50-65 kDa based on Tris-Bis PAGE result.

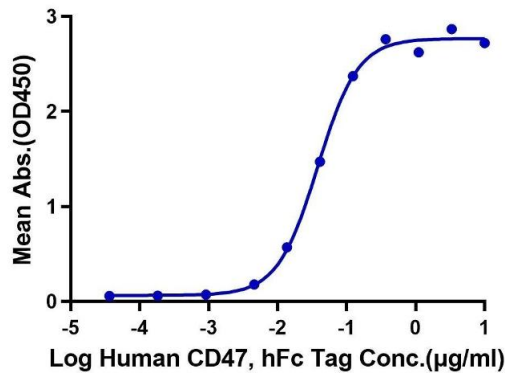
Application Details

Restrictions:	For Research Use only
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Handling

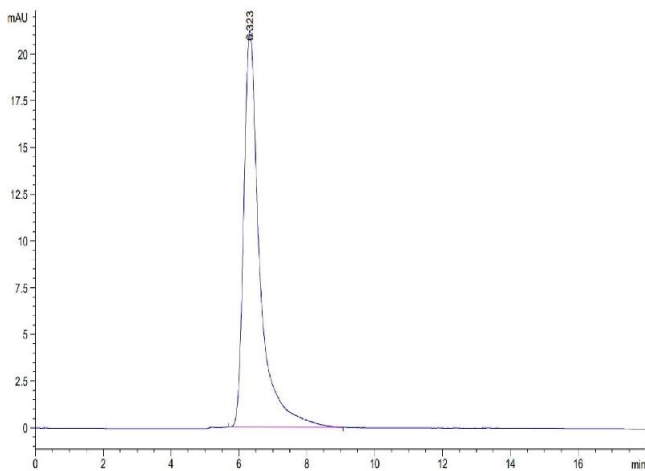
Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μ g/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22 μ m filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 $^{\circ}$ C,-80 $^{\circ}$ C
Storage Comment:	-20 to -80 $^{\circ}$ C for 12 months as supplied from date of receipt., -80 $^{\circ}$ C for 3-6 months after reconstitution., 2-8 $^{\circ}$ 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

Human SIRP alpha, His Tag ELISA
0.05µg Human SIRP alpha, His Tag Per Well



ELISA

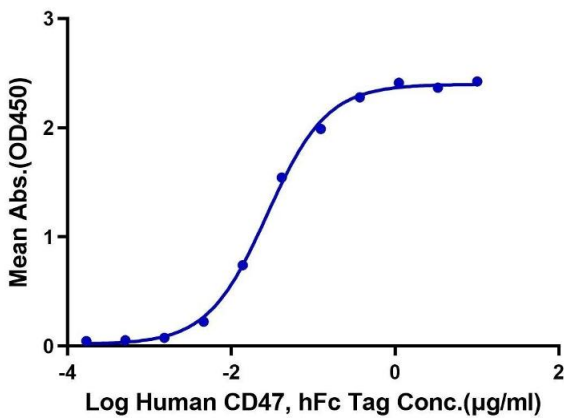
Image 1. Immobilized Human SIRP alpha, His Tag at 0.5 µg/mL (100 µL/Well) on the plate. Dose response curve for Human CD47, hFc Tag with the EC50 of 38.1 ng/mL determined by ELISA.



Size-exclusion chromatography-High Pressure Liquid Chromatography

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

Human SIRP alpha, His Tag ELISA
0.05µg Human SIRP alpha, His Tag Per Well



ELISA

Image 3. Immobilized Human SIRP alpha, His Tag at 0.5 µg/mL (100 µL/Well). Dose response curve for Human CD47, hFc Tag with the EC50 of 27.4 ng/mL determined by ELISA.

Please check the [product details page](#) for more images. Overall 8 images are available for ABIN7275652.