

Datasheet for ABIN7275674

SIRPA Protein (AA 32-373) (His tag)**3** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	SIRPA
Protein Characteristics:	AA 32-373
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SIRPA protein is labelled with His tag.

Product Details

Purpose:	Mouse SIRP alpha/CD172a Protein
Sequence:	Lys32-Asn373
Characteristics:	Recombinant Mouse SIRP alpha/CD172a Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Lys32-Asn373.
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:	The affinity constant of 1.33 µM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

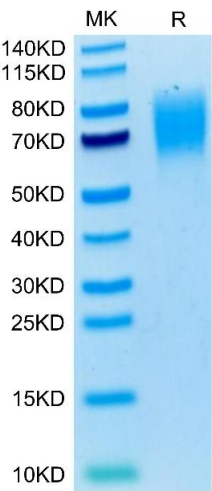
Target:	SIRPA
Alternative Name:	SIRP alpha (SIRPA Products)
Background:	Signal regulatory protein α (SIRP α) is a regulatory membrane glycoprotein from SIRP family expressed mainly by myeloid cells and also by stem cells or neurons. SIRP α acts as inhibitory receptor and interacts with a broadly expressed 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:	39 kDa. Due to glycosylation, the protein migrates to 65-85 kDa based on Tris-Bis PAGE result.

Application Details

Restrictions:	For Research Use only
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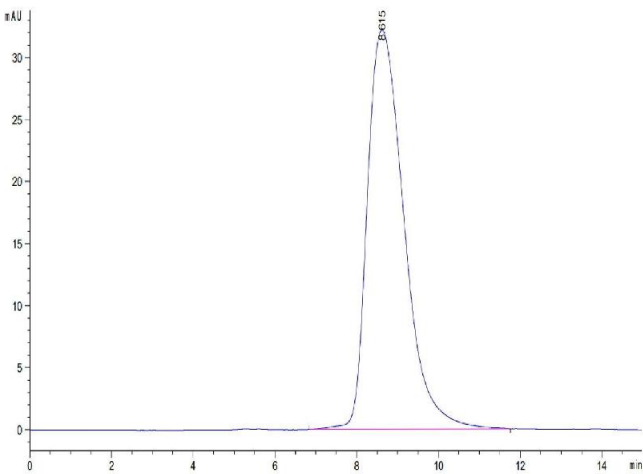
Handling

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 °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



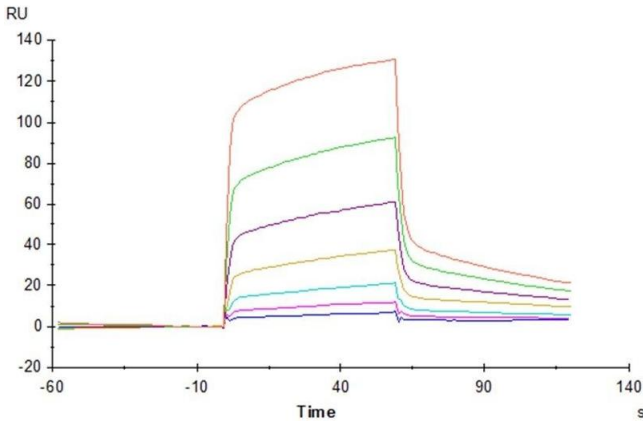
SDS-PAGE

Image 1. Human SIRP alpha on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



Size-exclusion chromatography-High Pressure Liquid Chromatography

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



Surface Plasmon Resonance

Image 3. Mouse SIRP alpha, His Tag immobilized on CM5 Chip can bind Mouse CD47, His Tag with an affinity constant of 1.33 μ M as determined in SPR assay (Biacore T200).