

Datasheet for ABIN6961082
SIRPA Protein (Fc-His Tag)[Go to Product page](#)

4 Images

Overview

Quantity:	100 µg
Target:	SIRPA
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SIRPA protein is labelled with Fc-His Tag.
Application:	ELISA

Product Details

Purpose:	Recombinant Human SIRPα with C-terminal human Fc and 6xHis tag
Specificity:	SIRPα (Glu31-Tyr373) hFc (Glu99-Ala330) 6xHis tag
Characteristics:	Extracellular Domain Protein
Purification:	affinity purification
Purity:	The purity of the protein is greater than 95 % as determined by SDS-PAGE and Coomassie blue staining.

Target Details

Target:	SIRPA
Alternative Name:	SIRPα (SIRPA Products)
Background:	Synonymes: SHPS1, SIRPA, CD172A, BIT, MFR, MYD1, P84, PTPNS

Target Details

Description: Tyrosine-protein phosphatase non-receptor type substrate 1 (SHPS1) is also known as CD172 antigen-like family member A (CD172a), Macrophage fusion receptor, MyD-1 antigen, Signal-regulatory protein alpha (SIRPA or SIRP alpha) or p84, is a member of the SIRP family, and also belongs to the immunoglobulin superfamily. SIRP alpha is Ubiquitous and highly expressed in brain. SIRPA / CD172a is immunoglobulin-like cell surface receptor for CD47 and acts as docking protein and induces translocation of PTPN6, PTPN11 and other binding partners from the cytosol to the plasma membrane. SIRPA / SHPS-1 supports adhesion of cerebellar neurons, neurite outgrowth and glial cell attachment and may play a key role in intracellular signaling during synaptogenesis and in synaptic function. By similarity. SIRPA / MyD1 involved in the negative regulation of receptor tyrosine kinase-coupled cellular responses induced by cell adhesion, growth factors or insulin and mediates negative regulation of phagocytosis, mast cell activation and dendritic cell activation. CD47 binding prevents maturation of immature dendritic cells and inhibits cytokine production by mature dendritic cells.

Molecular Weight:	predicted molecular mass of 70-98 kDa after removal of the signal peptide.
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Gene ID:	140885
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UniProt:	P78324
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Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
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Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
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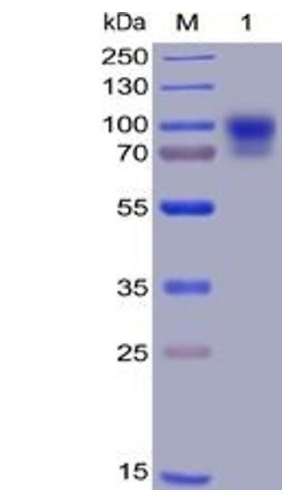
Reconstitution:	Reconstitute with deionized water
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Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose is added as protectants before lyophilization.
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Preservative:	Without preservative
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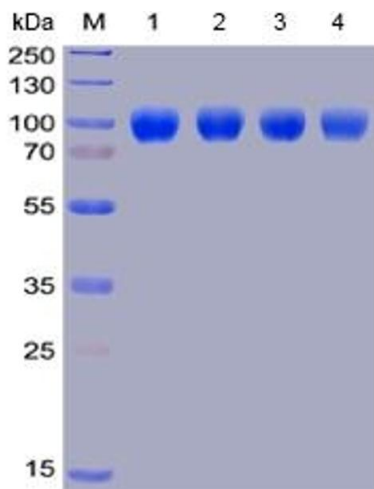
Storage:	-20 °C, -80 °C
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Expiry Date:	12 months
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SDS-PAGE

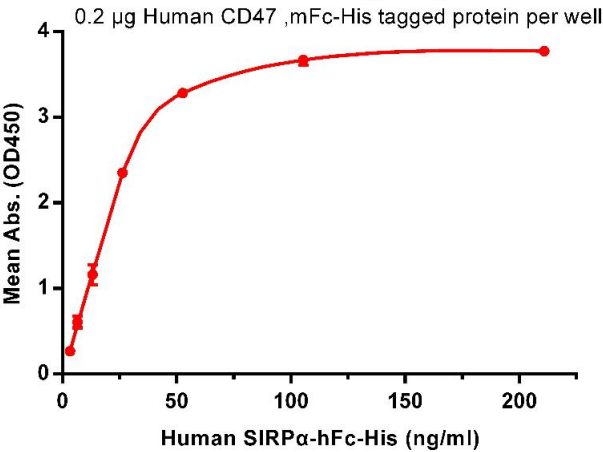
Image 1. Human SIRPα, hFc-His Tag on SDS-PAGE under reducing condition.



SDS-PAGE

Image 2. Lane 1: Human SIRPα, hFc-His tagged protein without freeze-thaw treatment, Lane 2: Human SIRPα, hFc-His tagged protein after one freeze-thaw cycle, Lane 3: Human SIRPα, hFc-His tagged protein after three freeze-thaw cycles, Lane 4: Human SIRPα, hFc-His tagged protein after five freeze-thaw cycles.

Human SIRPα, hFc-His tagged protein ELISA



ELISA

Image 3. ELISA plate pre-coated by 2 µg/mL (100 µL/well) Human CD47, mFc-His tagged protein (ABIN6961081) can bind its native ligand Human SIRPα, hFc-His tagged protein (ABIN6961082) in a linear range of 3.3-26.37 ng/mL.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6961082.