

Datasheet for ABIN2180706

SIRPA Protein (AA 31-370) (His tag)**2** Images**1** Publication[Go to Product page](#)

Overview

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

Product Details

Sequence:	AA 31-370
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 38.1 kDa. The protein migrates as 45-55 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.
Grade:	HPLC verified

Target Details

Target:	SIRPA
Alternative Name:	SIRP alpha (SIRPA Products)
Background:	<p>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.</p>
Molecular Weight:	38.5 kDa
NCBI Accession:	NP_001035111

Application Details

Restrictions:	For Research Use only
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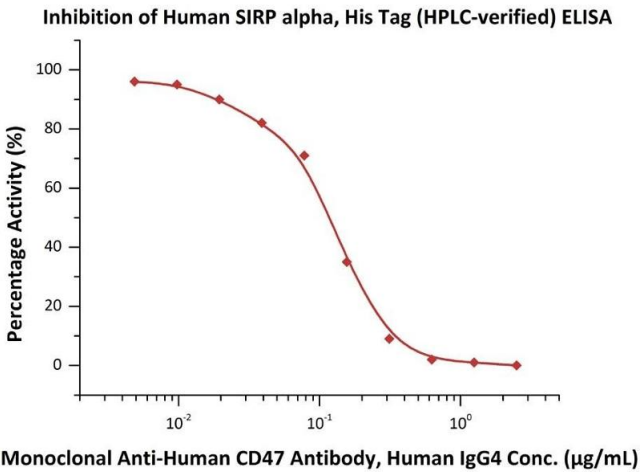
Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C), After reconstitution under sterile conditions for 3 months (-70 °C).

Publications

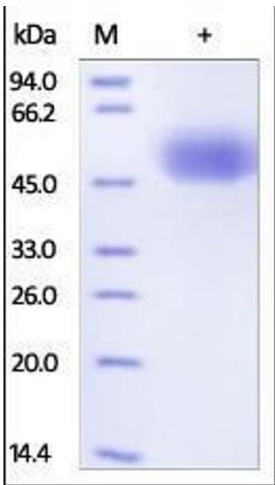
Product cited in:	Mettler Izquierdo, Varela, Park, Collarini, Lu, Pramanick, Rucker, Lopalco, Etches, Harriman: "High-efficiency antibody discovery achieved with multiplexed microscopy." in: Microscopy
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Images



ELISA

Image 1. Serial dilutions of A CD47 Neutralizing Antibody were added into Human SIRP alpha, His Tag (ABIN2180707,ABIN2180706): Biotinylated Human CD47, Fc,Avitag (ABIN2870532,ABIN2870533) binding reactions. The half maximal inhibitory concentration (IC50) is 0.1245 µg/mL (Routinely tested).



SDS-PAGE

Image 2. Human SIRP alpha (HPLC-verified), His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.