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Datasheet for ABIN2181765 SIRPA Protein (AA 31-370) (Fc Tag)

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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 Fc Tag.

Product Details

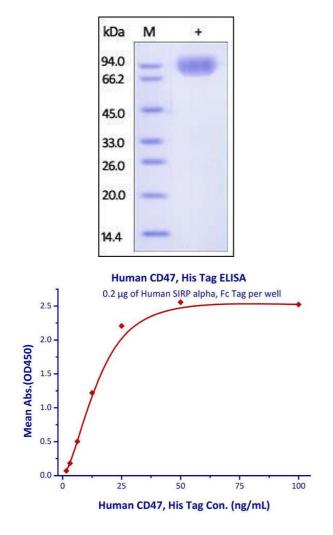
Sequence:	AA 31-370
Characteristics:	This protein carries a human IgG1 Fc tag at the C-terminus. The protein has a calculated MW of 63.5 kDa. The protein migrates as 70-105 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per μg by the LAL method.
Target Details	
Target:	SIRPA

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Alternative Name:	SIRP alpha (SIRPA Products)
Background:	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 cel
	activation and dendritic cell activation. CD47 binding prevents maturation of immature dendritic
	cells and inhibits cytokine production by mature dendritic cells.
Molecular Weight:	63.9 kDa
NCBI Accession:	NP_001035111
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Buffer:	50 mM Tris, 100 mM Glycine, pH 7.5
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:	McGonigle, Majumder, Kolber-Simonds, Wu, Hart, Noland, TenDyke, Custar, Li, Du, Postema, Lai
	Twine, Woodall-Jappe, Nomoto: "Neuropilin-1 drives tumor-specific uptake of chlorotoxin." in:
	Cell communication and signaling : CCS, Vol. 17, Issue 1, pp. 67, (2019) (PubMed).

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Images



SDS-PAGE

Image 1. Human SIRP alpha (HPLC-verified), Fc 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%.

Binding Studies

Image 2. Immobilized Human SIRP alpha, Fc Tag with a linear range of 1.56-12.5 ng/mL.