Datasheet for ABIN7319781

SIRPA Protein (Biotin,His-Avi Tag)

2 Images

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Overview

Quantity:	100 µg
Target:	SIRPA
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This SIRPA protein is labelled with Biotin,His-Avi Tag.

Product Details

Purpose:	Recombinant Human Signal-Regulatory Protein alpha-1/SIRPA/CD172a (C-6His-Avi) Biotinylated
Sequence:	Glu31-Arg370
Characteristics:	Biotinylated Recombinant Human Signal-Regulatory Protein Alpha 1 is produced by our Mammalian expression system and the target gene encoding Glu31-Arg370 is expressed with a 6His, Avi tag at the C-terminus.
Purity:	>95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Immobilized Human SIRPA-His-Avi(Cat#CY28) at 10µg/ml (100 µl/well) can bind Human CD47-Fc(Cat#CG18). The ED50 of Human CD47-Fc(Cat#CG18) is 898 ng/ml.

Target Details

Target:	SIRPA
Alternative Name:	CD172a (SIRPA Products)
Background:	Background: Signal Regulatory Protein α (SIRPα) is a monomeric approximately 90 kD type I transmembrane glycoprotein. The 504 amino acid human SIRPα contains two Ig-like C1-type domains and one Ig-like V-type domain. SIRPα can express in various tissues, mainly on brain and myeloid cells, including macrophages, neutrophils, dendritic and Langerhans cells. It also can detect in neurons, smooth muscle and endothelial cells. SIRPA is an immunoglobulin-like cell surface receptor for CD47. SIRPα acts as docking protein and induces translocation of PTPN6, PTPN11 and other binding partners from the cytosol to the plasma membrane. SIRPα shows adhesion of cerebellar neurons, neurite outgrowth and glial cell attachment. SIRPα engagement generally produces a negative regulatory signal, it may mediate negative regulation of phagocytosis, mast cell activation and dendritic cell activation. Synonym: Tyrosine-Protein Phosphatase Non-Receptor Type Substrate 1, SHP Substrate 1, SHPS-1, Brain Ig-Like Molecule with Tyrosine-Based Activation Motifs, Bit, CD172 Antigen-Like Family Member A, Inhibitory Feceptor SHPS-1, Macrophage Fusion Receptor, MyD-1 Antigen, Signal-Regulatory Protein Alpha-1, Sirp-Alpha-1, Signal-Regulatory Protein Alpha-2, Sirp-Alpha-2, Signal-Regulatory Protein Alpha-3, Sirp-Alpha-3, p84, CD172a, SIRPA, BIT, MFR, MYD1, PTPNS1, SHPS1, SIRP
Molecular Weight:	39.9 kDa
UniProt:	P78324

Application Details

Comment:	50-80 kDa
Restrictions:	For Research Use only

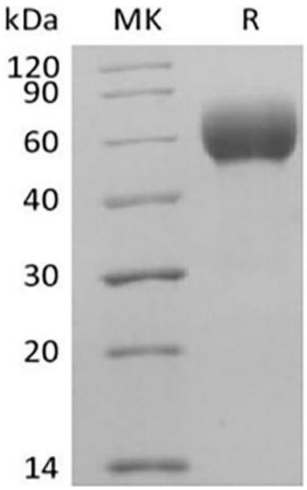
Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted

Handling

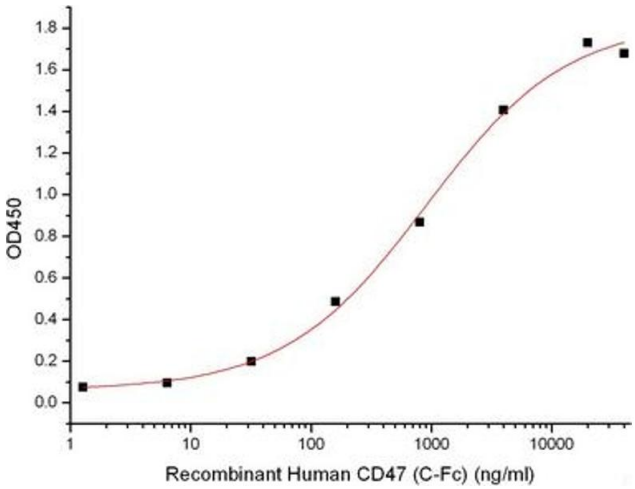
samples are stable at < -20°C for 3 months.

Images



Western Blotting

Image 1.



ELISA

Image 2.