

Datasheet for ABIN6253574

SIRPA Protein (AA 31-370) (His tag)**3** Images**1** Publication[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	SIRPA
Protein Characteristics:	AA 31-370
Origin:	Cynomolgus
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
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	SIRPA
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

Target Details

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:	39.0 kDa
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NCBI Accession:	NP_001271679
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Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
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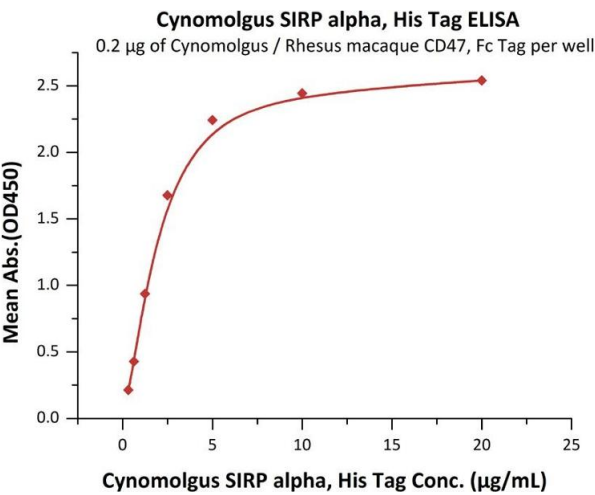
Buffer:	PBS, pH 7.4
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Handling Advice:	Please avoid repeated freeze-thaw cycles.
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Storage:	-20 °C
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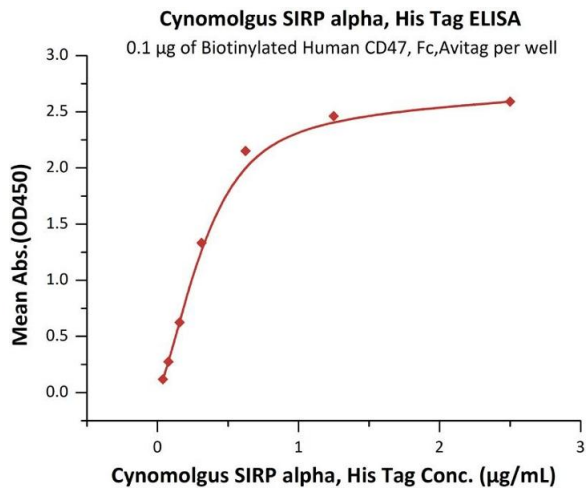
Publications

Product cited in:	Meyer, Ueland: "Targeted quantification of C-reactive protein and cystatin c and its variants by immuno-MALDI-MS." in: Analytical chemistry , Vol. 86, Issue 12, pp. 5807-14, (2014) (PubMed).
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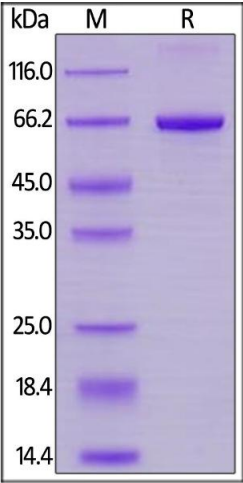
ELISA

Image 1. Immobilized Cynomolgus / Rhesus macaque CD47, Fc Tag (ABIN4949053,ABIN4949054) at 2 µg/mL (100 µL/well) can bind Cynomolgus SIRP alpha, His Tag (ABIN5955016,ABIN6253574) with a linear range of 0.313-2.5 µg/mL (QC tested).



ELISA

Image 2. Immobilized Biotinylated Human CD47, Fc,Avitag (ABIN2870532,ABIN2870533) at 1 µg/mL (100 µL/well) on streptavidin precoated (0.2 µg/well) plate, can bind Cynomolgus SIRP alpha, His Tag (ABIN5955016,ABIN6253574) with a linear range of 0.039-0.625 µg/mL (Routinely tested).



SDS-PAGE

Image 3. Cynomolgus SIRP alpha, His Tag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95 % .