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Datasheet for ABIN7092698

SIRPA Protein (AA 31-373) (mFc Tag)

2 Images

Overview

Quantity:	100 µg
Target:	SIRPA
Protein Characteristics:	AA 31-373
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SIRPA protein is labelled with mFc Tag.

Product Details

Purpose:	Recombinant Human SIRPa with C-terminal mouse Fc tag
Specificity:	SIRPa (Glu31-Tyr373) mFc (Pro99-Lys330)
Characteristics:	Extracellular Domain Protein
Purification:	Purified from cell culture supernatant by affinity chromatography
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:	SIRPalpha (SIRPA Products)
Background:	Tyrosine-protein phosphatase non-receptor type substrate 1 (SHPS1) is also known as CD172

Target Details

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 63.8 kDa after removal of the signal peptide. The apparent molecular mass of SIRPa-mFc is 70-100 kDa due to glycosylation.

Gene ID: 140885

UniProt: [P78324](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose is added as protectants before lyophilization.

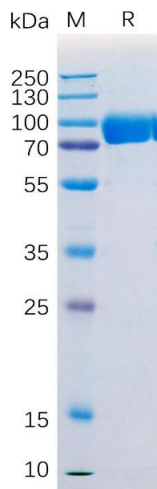
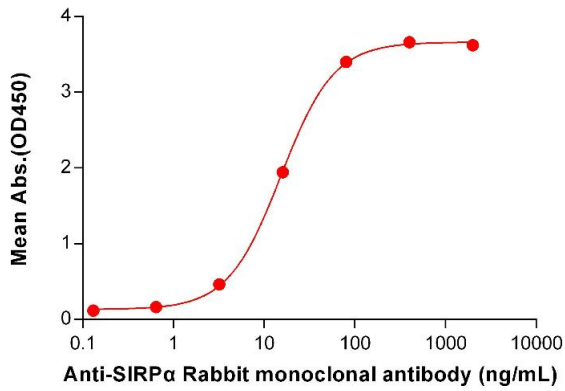
Storage: -20 °C, -80 °C

Storage Comment: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing).
Lyophilized proteins are shipped at ambient temperature.

Expiry Date: 12 months

Human SIRP α , mFc tagged protein ELISA

0.1 μ g of Human SIRP α , mFc tagged protein per well



ELISA

Image 1. ELISA plate pre-coated by 1 μ g/mL (100 μ L/well) Human SIRP α Protein, mFc Tag (ABIN7092698, ABIN7272186 and ABIN7272187) can bind anti-SIRP α antibody, Rabbit mAb clone: DM8 in a linear range of 3.2-80 ng/mL.

SDS-PAGE

Image 2. Human SIRP α Protein, mFc Tag on SDS-PAGE under reducing condition.