

# Recombinant Mouse SIRPA Protein, His-tagged, Alexa Fluor 488 conjugated

**Cat. No.** SIRPA-937MAF488    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Alexa Fluor 488 conjugated recombinant Mouse SIRPA (Lys32-Asn373) protein was fused to His-tag at C-terminus and expressed in human 293 cells (HEK293).
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>ProteinLength</b>	Lys32-Asn373
<b>Description</b>	<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</p>

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	production by mature dendritic cells.
<b>Form</b>	Lyophilized
<b>Molecular Mass</b>	The protein has a calculated MW of 39.8 kDa. The protein migrates as 60-80 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
<b>N-terminal Sequence Analysis</b>	Lys 32
<b>Endotoxin</b>	< 1.0 EU/ µg by the LAL method.
<b>Purity</b>	> 95 % as determined by SDS-PAGE
<b>Characteristic</b>	Disulfide-linked homodimer Labeled with Alexa Fluor 488 via amines Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
<b>Storage</b>	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
<b>Storage Buffer</b>	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

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**Conjugation** Alexa Fluor 488

## GENE INFORMATION

**Gene Name** SIRPA

**Official Symbol** SIRPA

**Synonyms**

SIRPA; signal-regulatory protein alpha; tyrosine-protein phosphatase non-receptor type substrate 1; mSIRP-alpha1; sirp-alpha-1; myD-1 antigen; SHP substrate 1; inhibitory receptor SHPS-1; signal-regulatory protein alpha-1; CD172 antigen-like family member A; brain immunological-like with tyrosine-based motifs; protein tyrosine phosphatase, non-receptor type substrate 1; brain Ig-like molecule with tyrosine-based activation motifs; Bit; P84; SIRP; SHP-1; CD172a; Ptpns1; SHPS-1; AI835480

**Gene ID** 19261

**mRNA Refseq** NM\_001177646

**Protein Refseq** NP\_001171117

**UniProt ID** P97797

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