PRODUCT INFORMATION

Target	SIRPa
Synonyms	SHP substrate 1;SHPS-1;Bit;MyD-1 antigen;mSIRP-alpha1;p84;CD172a
Description	Recombinant mouse SIRPa protein with C-terminal 6×His tag
Delivery	In Stock
Uniprot ID	P97797
Expression Host	HEK293
Tag	C-6×His Tag
Molecular Characterization	Mouse SIRPa(Lys32-Asn373) 6×His tag
Molecular Weight	The protein has a predicted molecular mass of 38.7kDa after removal of the signal peptide. The apparent molecular mass of mSIRPa-His is approximately 55-70 kDa due to glycosylation.
Purity	The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
Storage&Shipping	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.
Background	Immunoglobulin-like cell surface receptor for CD47. Acts as docking protein and induces translocation of PTPN6, PTPN11 and other binding partners from the cytosol to the plasma membrane. Supports adhesion of cerebellar neurons, neurite outgrowth and glial cell attachment. May play a key role in intracellular signaling during synaptogenesis and in synaptic function. Involved in the negative regulation of receptor tyrosine kinase-coupled cellular responses induced by cell adhesion, growth factors or insulin. 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 (By similarity).[UniProtKB/Swiss-Prot Function]
Usage	Research use only
Conjugate	Unconjugated

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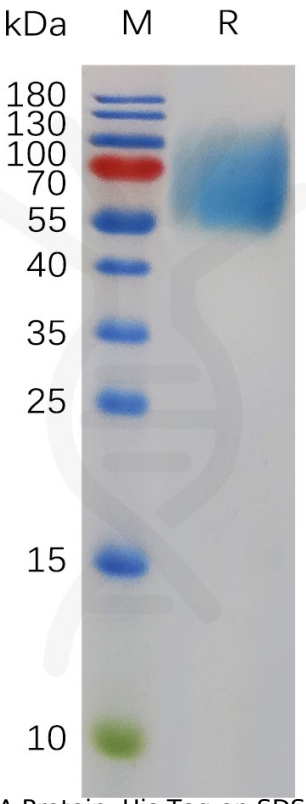


Figure 1. Mouse SIRPA Protein, His Tag on SDS-PAGE under reducing condition.

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