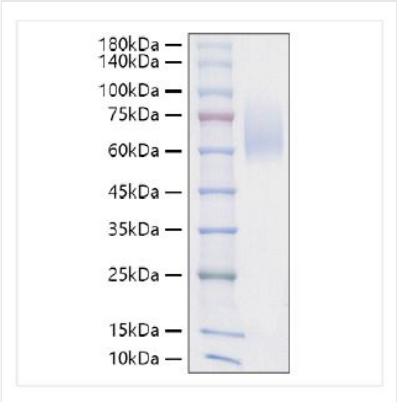
SIRP-alpha/CD172a Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	SIRP-alpha/CD172a, Recombinant Protein
Full Product Name	Recombinant Mouse SIRP-alpha/CD172a Protein
Product Gene Name	SIRP-alpha/CD172a recombinant protein
Product Synonym Names	CD172a; BIT; MFR; MYD1; MYD-1; P84; PTPNS1; SHP substrate 1; SHPS1; SHPS-1; SHPS1CD172A; SIRP alpha; SIRPA; Sirp-alpha-1; SIRPalpha2; Sirp-alpha-2; Sirp-alpha-3; SIRPA
Host	HEK293 cells
Form/Format	Liquid Lyophilized from a 0.22 um filtered solution of PBS, pH 7.4.
Purity/Purification	> 95% by SDS-PAGE.
Preparation and Storage	Store the lyophilized protein at -20 to -80 degree C for 12 months. After reconstitution, the protein solution is stable at -20 degree C for 3 months, at 2-8 degree C for up to 1 week. Avoid repeated freeze/thaw cycles. Ship: Ice Pack
Molecular Weight	56,425 Da
Chromosome Location	Chromosome: 2; NC_000068.7 (129592839..129632228). Location: 2 F3; 2 73.1 cM
3D Structure	ModBase 3D Structure for P97797
Species	Mouse
Tag	C-His
Product Categories/Family for SIRP-alpha/CD172a recombinant protein	Other Recombinant Protein
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for SIRP-alpha/CD172a recombinant protein	Recombinant Mouse SIRP-alpha/CD172a Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Lys32-Asn373) of mouse SIRP-alpha/CD172a (Accession #NP_001277948.1) fused with a 6×His tag at the C-terminus.
Other Notes	Small volumes of SIRP-alpha/CD172a recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SIRP-alpha/CD172a purchase	MBS9146863 is a recombinant protein targeting SIRP-alpha/CD172a. Also known as Recombinant Mouse SIRP-alpha/CD172a Protein. Host: HEK293 cells.



SDS-Page of SIRP-alpha/CD172a recombinant protein
Recombinant Mouse SIRP-alpha/CD172a Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 60-70 kDa.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SIRP-alpha/CD172a. It may not necessarily be applicable to this product.

NCBI GI #	294997315
NCBI GeneID	19261
NCBI Accession #	NP_001171117.1
UniProt Primary Accession #	P97797
UniProt Secondary Accession #	O08907; O35924; O88555; O88556; P97796; Q8R559; Q9QX57; Q9WTN4
UniProt Related Accession #	P97797
GenBank Nucleotide #	NM_001177646.1
NCBI Official Full Name	tyrosine-protein phosphatase non-receptor type substrate 1 isoform 1
NCBI Official Synonym Full Names	signal-regulatory protein alpha
NCBI Official Symbol	Sirpa
NCBI Official Synonym Symbols	Bit; P84; SIRP; SHP-1; CD172a; Ptpns1; SHPS-1; AI835480
UniProt Protein Name	Tyrosine-protein phosphatase non-receptor type substrate 1
UniProt Synonym Protein Names	Brain Ig-like molecule with tyrosine-based activation motifs; Bit; CD172 antigen-like family member A; Inhibitory receptor SHPS-1; MyD-1 antigen; Signal-regulatory protein alpha-1; Sirp-alpha-1; mSIRP-alpha1; p84
UniProt Gene Name	Sirpa
UniProt Synonym Gene Names	Bit; Myd1; Ptpns1; Shps1; Sirp; SHP substrate 1; SHPS-1; Bit; Sirp-alpha-1
UniProt Entry Name	SHPS1_MOUSE
NCBI Protein Information	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 tyrosi
UniProt Comments for SIRP-alpha/CD172a	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 ().

Research Articles on SIRP-alpha/CD172a	**1.** these findings have demonstrated how tumor cells inhibit innate sensing in dendritic cells and suggested that the CD47-SIRPalpha axis is critical for dendritic cell-driven antitumor immunity
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