SIRP-alpha1/beta1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SIRP-alpha1/beta1, Polyclonal Antibody
Full Product Name	SIRP-alpha1/beta1 Polyclonal Antibody
Product Gene Name	anti-SIRP-alpha1/beta1 antibody
Product Synonym Names	SIRPA; BIT; MFR; MYD1; PTPNS1; SHPS1; SIRP; Tyrosine-protein phosphatase non-receptor type substrate 1; SHP substrate 1; SHPS-1; Brain Ig-like molecule with tyrosine-based activation motifs; Bit; CD172 antigen-like family member A; Inhibitory receptor SHP
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Specificity	SIRP-alpha1/beta1 Polyclonal Antibody detects endogenous levels of SIRP-alpha1/beta1 protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	54,967 Da
Chromosome Location	Chromosome: 20; NC_000020.10 (1874813..1920540). Location: 20p13
OMIM	602461
3D Structure	ModBase 3D Structure for P78324
Immunogen	Synthesized peptide derived from the Internal region of human SIRP-alpha1/beta1.
Product Categories/Family for anti-SIRP-alpha1/beta1 antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SIRP-alpha1/beta1 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-SIRP-alpha1/beta1 antibody	WB: 1:500-1:2000 ELISA: 1:10000
Related Product Information for anti-SIRP-alpha1/beta1 antibody	MBS8593283 is an antibody targeting SIRP-alpha1/beta1. Also known as SIRP-alpha1/beta1 Polyclonal Antibody. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-SIRP-alpha1/beta1 antibody 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SIRP-alpha1/beta1. It may not necessarily be applicable to this product.

NCBI GI #	91105764

NCBI GeneID	140885
NCBI Accession #	NP_001035111.1
UniProt Primary Accession #	P78324
UniProt Secondary Accession #	O00683; O43799; Q8N517; Q8TAL8; Q9H0Z2; Q9UDX2; Q9UIJ6; Q9Y4U9; A2A2E1; A8K411; B2R6C3
UniProt Related Accession #	P78324
GenBank Nucleotide #	NM_001040022.1
NCBI Official Full Name	tyrosine-protein phosphatase non-receptor type substrate 1
NCBI Official Synonym Full Names	signal-regulatory protein alpha
NCBI Official Symbol	SIRPA
NCBI Official Synonym Symbols	BIT; MFR; P84; SIRP; MYD-1; SHPS1; CD172A; PTPNS1
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; Macrophage fusion receptor; MyD-1 antigen; Signal-regulatory protein alpha-1; Sirp-alpha-1; Signal-regulatory protein alpha-2; Sirp-alpha-2; Signal-regulatory protein alpha-3; Sirp-alpha-3; p84
UniProt Gene Name	SIRPA
UniProt Synonym Gene Names	BIT; MFR; MYD1; PTPNS1; SHPS1; SIRP; SHP substrate 1; SHPS-1; Bit; Sirp-alpha-1; Sirp-alpha-2
UniProt Entry Name	SHPS1_HUMAN
NCBI Protein Information	tyrosine-protein phosphatase non-receptor type substrate 1; myd-1 antigen; inhibitory receptor SHPS-1; macrophage fusion receptor; CD172 antigen-like family member A; tyrosine phosphatase SHP substrate 1; brain-immunoglobulin-like molecule with tyrosine-b
NCBI Summary for SIRP-alpha1/beta1	The protein encoded by this gene is a member of the signal-regulatory-protein (SIRP) family, and also belongs to the immunoglobulin superfamily. SIRP family members are receptor-type transmembrane glycoproteins known to be involved in the negative regulation of receptor tyrosine kinase-coupled signaling processes. This protein can be phosphorylated by tyrosine kinases. The phospho-tyrosine residues of this PTP have been shown to recruit SH2 domain containing tyrosine phosphatases (PTP), and serve as substrates of PTPs. This protein was found to participate in signal transduction mediated by various growth factor receptors. CD47 has been demonstrated to be a ligand for this receptor protein. This gene and its product share very high similarity with several other members of the SIRP family. These related genes are located in close proximity to each other on chromosome 20p13. Multiple alternatively spliced transcript variants have been determined for this gene. [provided by RefSeq, Jul 2008]

UniProt Comments for SIRP-alpha1/beta1	SHPS1: 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. Binds PTPN11 when tyrosine-phosphorylated, except in macrophages, where it primarily binds PTPN6. Binds GRB2 in vitro. Binds FGR. Binds JAK2 irrespective of its phosphorylation status and forms a stable complex. Binds SCAP1 and/or SCAP2. The resulting complex recruits FYB. Binds PTK2B. Ubiquitous. Highly expressed in brain. Detected on myeloid cells, but not T-cells. Detected at lower levels in heart, placenta, lung, testis, ovary, colon, liver, small intestine, prostate, spleen, kidney, skeletal muscle and pancreas. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Cell surface; Motility/polarity/chemotaxis; Cell adhesion; Receptor, misc.; Membrane protein, integral Chromosomal Location of Human Ortholog: 20p13 Cellular Component: membrane; integral to membrane; plasma membrane Molecular Function: SH3 domain binding Biological Process: blood coagulation; cell adhesion; leukocyte migration
Research Articles on SIRP-alpha1/beta1	**1.** IFN-beta and IFN-gamma/TNF-alpha decrease erythrophagocytosis by human monocytes in vitro, and this effect does not apparently require an increase in SIRP-alpha or SHP-1 expression.
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