

SIRP alpha/CD172a Recombinant Protein | SIRPalpha/CD172a recombinant protein

Recombinant human SIRP alpha/CD172a protein

CATALOG # AAA48418	HOST HEK293	APPLICATIONS SDS-Page
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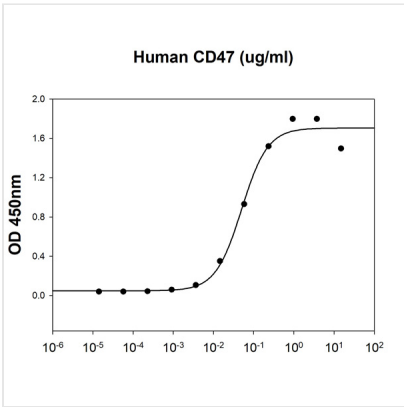
PRODUCT SYNONYMS

SIRP alpha/CD172a; Recombinant human SIRP alpha/CD172a protein; SIRPA; Tyrosine-protein phosphatase non-receptor type substrate 1 isoform 1; SHP substrate 1; SHPS-1; 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; CD172a; BIT; MFR; MYD1; PTPNS1; SHPS1; SIRP; SIRPalpha/CD172a recombinant protein

PRODUCT SPECIFICATIONS

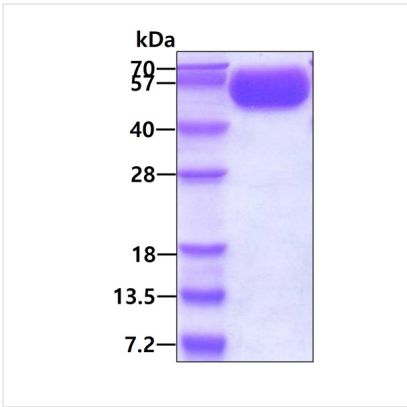
Host	HEK293
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol
Concentration	1mg/ml (determined by Absorbance at 280nm) (varies by lot)
Sequence Positions	27-373aa
Sequence	GVAGE EELQVIQPK SVLVAAGETA TLRCTATSLI PVGPIQWFRG AGPGRELIYN QKEGHFPRVT TVSDLTKRNN MDFSIRIGNI TPADAGTYYC VKFRKGSPDD VEFKSGAGTE LSVRAKPSAP VVSGPAARAT PQHTVSFTCE SHGFSPRDI LKWFKNL SDFQTNVDPV GESVSYSIHS TAKVLTRED VHSQVICEVA HVTLQGDPLR GTANLSETIR VPPTLEVTTQ PVRAENQVNV TCQVRKFYPQ RLQLTWLENG NVSRTETAST VTENKDGTYN WMSWLLNVNS AHRDDVKLTC QVEHDGQPAV SKSHDLKUSA HPKEQGSNTA AENTGSNERN IY
Applicable Applications for SIRPalpha/CD172a recombinant protein	Bioactivity, SDS-PAGE
Species	Human
Tag	His-Tag
Predicted Nterm	Asp
Bioactivity	Measured by its binding ability in a functional ELISA with Human CD47
Preparation and Storage	Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

IMAGES



Bioactivity

Human SIRP alpha/CD172a is coated at 2 ug/ml (100 ul/well) can bind Human CD47 in a Functional ELISA assay.



SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

ADDITIONAL INFORMATION

Related Product Information for SIRPalpha/CD172a recombinant protein	SIRP alpha is a member of the signal-regulatory-protein (SIRP) family, and also belongs to the immunoglobulin superfamily. SIRP family members known to be involved in the negative regulation of receptor tyrosine kinase-coupled signaling processes. SIRP alpha interacts with a broadly expressed transmembrane protein CD47. This interaction negatively controls effector function of innate immune cells such as host cell phagocytosis. 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. It was found to participate in signal transduction mediated by various growth factor receptors. Recombinant human SIRP alpha, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Product Categories/Family for SIRPalpha/CD172a recombinant protein	Adhesion & Movement; Neuroscience
References	Timms J.F., Swanson K.D., et al. (1999) Curr. Biol. 9:927-930.;; Barclay, A.N. & M.H. Brown (2006) Nat. Rev. Immunol. 6:457.

NCBI AND UNIPROT INFORMATION

NCBI GI #	18426911
NCBI GeneID	140885
NCBI Accession #	NP_542970.1
NCBI GenBank Nucleotide #	NM_080792.2
UniProt Accession #	P78324; O00683; O43799; Q8N517; Q8TAL8; Q9H0Z2; Q9UDX2; Q9UIJ6; Q9Y4U9; A2A2E1; A8K411
Molecular Weight	54,967 Da
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
NCBI Protein Information	tyrosine-protein phosphatase non-receptor type substrate 1; myd-1 antigen; OTTHUMP00000030001; OTTHUMP00000159968; OTTHUMP00000159969; inhibitory receptor SHPS-1; macrophage fusion receptor; CD172 antigen-like family member A; tyrosine phosphatase SHP sub
UniProt Protein Name	Tyrosine-protein phosphatase non-receptor type substrate 1
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

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/sirpa-recombinant-protein-hek293-bioactivity-sds-page/48418>