

Active Recombinant Human SIRPA Protein, His-tagged

Cat. No. SIRPA-13H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SIRP alpha (27-373aa, 356aa), fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Species	Human
Source	HEK293
ProteinLength	27-373
Description	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.
Form	Liquid

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Bio-activity	Measured by its binding ability in a functional ELISA with Human CD47.
Molecular Mass	39 kDa
AA Sequence	GVAGEEELQVIQPDKSVLVAAGETATLRCTATSLIPVGPIQWFRGAGPGRELIYNQK EGHFPRVTTVSDLTKRNNMDFSIRIGNITPADAGTYVCVKFRKGSPDDVEFKSGAGT ELSVRAKPSAPVVSGPAARATPQHTVSFTCESHGFSRPDITLKWFKNGNELSDFQT NVDPVGESVSYSIHSTAKVVLTREDVHSQVICEVAHVTLQGDPLRGTTANLSETIRVPP TLEVTQQPVRAENQVNVTCQVRKFYPQRLQLTWLENGNVSRTEASTVTENKDG YNWMSWLLVNVSAHRDDVKLTCQVEHDGQPAVSKSHDLKVSAHPKEQGSNTAAE NTGSNERNIY
Purity	> 95% by SDS-PAGE
Applications	SDS-PAGE, Bioactivity
Storage	Can be stored at 2 to 8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/mL (determined by Absorbance at 280nm)
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

GENE INFORMATION

Gene Name	SIRPA signal regulatory protein alpha [Homo sapiens (human)]
Official Symbol	SIRPA
Synonyms	SIRPA; signal regulatory protein alpha; BIT; MFR; P84; SIRP; MYD-1; SHPS1; CD172A; PTPNS1; tyrosine-protein phosphatase non-receptor type substrate 1;

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CD172 antigen-like family member A; brain-immunoglobulin-like molecule with tyrosine-based activation motifs; inhibitory receptor SHPS-1; macrophage fusion receptor; myd-1 antigen; tyrosine phosphatase SHP substrate 1; EC 3.1.3.48

Gene ID [140885](#)

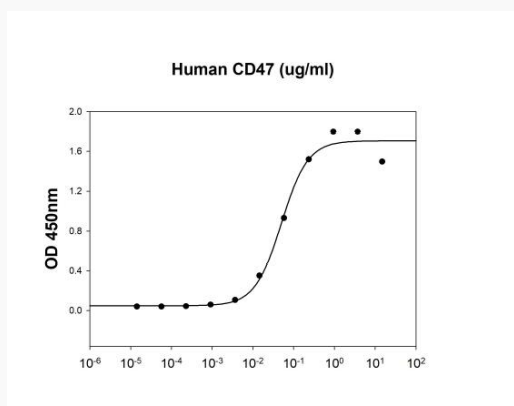
mRNA Refseq [NM_080792](#)

Protein Refseq [NP_542970](#)

MIM [602461](#)

UniProt ID [P78324](#)

Biological Activity



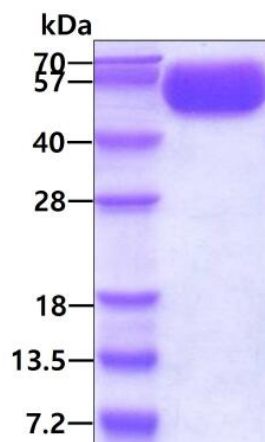
Human SIRP alpha/CD172a is coated at 2 µg/mL (100 µL/well) can bind Human CD47 in a Functional ELISA assay.

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SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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