

## Active Recombinant Human SIRPA Protein, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	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.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	27-373
<b>Description</b>	<p>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.</p>
<b>Form</b>	Liquid

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<b>Bio-activity</b>	Measured by its binding ability in a functional ELISA with Human CD47.
<b>Molecular Mass</b>	39 kDa
<b>AA Sequence</b>	GVAGEEELQVIQPDKSVLVAAGETATLRCTATSLIPVGPIQWFRGAGPGRELIYNQK EGHFPRVTTVSDLTKRNNMDFSIRIGNITPADAGTYCYVKFRKGGSPDDVEFKSGAGT ELSVRAKPSAPVVS GPAARATPQHTVSFTCESHGFSRDLTKWFKNGNELSDFQT NVDPVGESVSYSIHSTAKVVLTRDVDHSQVICEVAHVTLQGDPLRGTANLSETIRVPP TLEVTQQPVRAENQVNVTCQVRKFYPQRLQLTWLENGNVSRTETASTVTENKDG YNWMSWLLVNVSAHRDDVKLTCQVEHDGQPAVSKSHDLKVS AHPKEQGSNTAAE NTGSNERNIY
<b>Purity</b>	> 95% by SDS-PAGE
<b>Applications</b>	SDS-PAGE, Bioactivity
<b>Storage</b>	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.
<b>Concentration</b>	1 mg/mL (determined by Absorbance at 280nm)
<b>Storage Buffer</b>	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	SIRPA signal regulatory protein alpha [ Homo sapiens (human) ]
<b>Official Symbol</b>	SIRPA
<b>Synonyms</b>	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

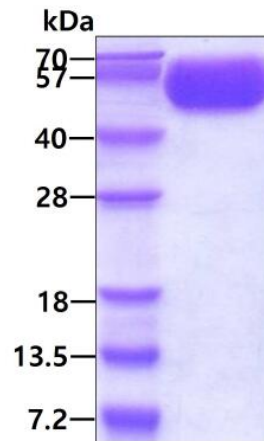
**mRNA Refseq** NM\_080792

**Protein Refseq** NP\_542970

**MIM** 602461

**UniProt ID** P78324

#### SDS-PAGE



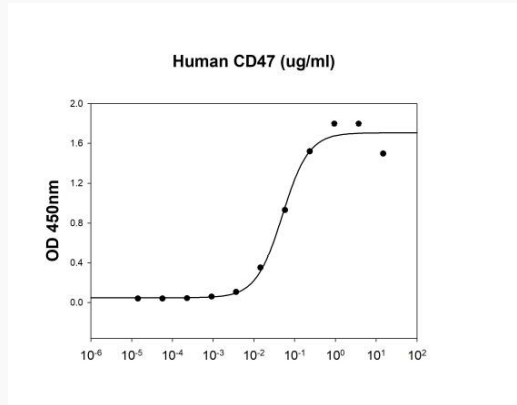
3  $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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**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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