

Recombinant Rat Sirpa protein, His-tagged

Cat. No. Sirpa-195R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant rat SIRPA, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Rat
Source	Insect Cells
Description	SIRPA, also known as tyrosine-protein phosphatase non-receptor type substrate 1, is an immunoglobulin-like cell surface receptor for CD47. It supports adhesion of cerebellar neurons, neurite outgrowth and glial cell attachment. It may play a key role in intracellular signaling during synaptogenesis and in synaptic function. It is involved in the negative regulation of receptor tyrosine kinase-coupled cellular responses induced by cell adhesion, growth factors or insulin.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Molecular Mass	38.5kDa (350aa)57-70kDa (SDS-PAGE under reducing conditions)
AA Sequence	KELKVTQADK SVSVAAGDSA TLNCTVSSLT PVGPIKWFKG EGQNRSPIYS FIGGEHFPRI TNVSDATKRN NMDFSICISN VTPEDAGTYCYVKFQKGIVE PDTEIKSGGG TTLYVLAKPS SPEVSGPDSR GSPGQTVNFT CKSYGFSPRN ITLKWLNKGK ELSHLETTIS SKSNVSYNISSTVSVKLSPE DIHSRVICEV AHVTLEGRPL NGTANFSNII RVSPTLKITQ QPLTPASQVN LTCQVQKFYP KALQLNWLEN GNLSRTDKPEHFTDNRDGTY NYTSLFLVNS SAHREDVVFT CQVEHDSQPA ITENHTVRAF AHSSSGGSME TIPDNNAYYN WNVEHHHHHH

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Endotoxin	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Purity	> 95% by SDS – PAGE
Storage	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5mg/ml (determined by Absorbance at 280nm)

GENE INFORMATION

Gene Name	Sirpa signal-regulatory protein alpha [Rattus norvegicus]
Official Symbol	Sirpa
Synonyms	SIRPA; signal-regulatory protein alpha; tyrosine-protein phosphatase non-receptor type substrate 1; sirp-alpha-1; SHP substrate 1; inhibitory receptor SHPS-1; macrophage fusion receptor; signal-regulatory protein alpha-1; CD172 antigen-like family member A; macrophage membrane protein MFP150; brain Ig-like molecule with tyrosine-based activation motifs; Brain immunoglobulin like protein with tyrosine - based activation motifs; Protein tyrosine phosphatase non-receptor type substrate 1 (SHP substrate 1); Protein tyrosine phosphatase, non-receptor type substrate 1 (SHP substrate 1); Bit; Ptpns1; SHPS-1;
Gene ID	25528
mRNA Refseq	NM_013016
Protein Refseq	NP_037148

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MIM	
UniProt ID	
Pathway	Cell-Cell communication, organism-specific biosystem; IL-1 Signaling Pathway, organism-specific biosystem; Osteoclast differentiation, organism-specific biosystem; Osteoclast differentiation, conserved biosystem; Signal regulatory protein (SIRP) family interactions, organism-specific biosystem;
Function	SH3 domain binding; protein phosphorylated amino acid binding; protein phosphorylated amino acid binding;

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