

Active Recombinant Rat SIRPA protein, Fc-tagged

Cat. No. SIRPA-0697R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat SIRPA protein(Lys32-Asn373), fused with Fc tag, was expressed in HEK293.
Species	Rat
Source	HEK293
ProteinLength	32-373 a.a.
Form	Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5. Normally trehalose is added as protectant before lyophilization.
Bio-activity	Immobilized Rat SIRP alpha, Fc Tag at 5 µg/mL (100 µL/well) can bind Mouse CD47, Mouse IgG2a Fc Tag, low endotoxin with a linear range of 1-20 ng/mL. Immobilized Mouse CD47, Mouse IgG2a Fc Tag, low endotoxin at 5 µg/mL (100 µL/well) can bind Rat SIRP alpha, Fc Tag with a linear range of 2-39 ng/mL.
Molecular Mass	This protein carries a human IgG1 Fc tag at the C-terminus. The protein has a calculated MW of 64.0 kDa. The protein migrates as 100-116 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Proteinlength	Lys32-Asn373
Endotoxin	Less than 1.0 EU per µg by the LAL method.

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Purity	>95% as determined by SDS-PAGE.
Storage	Store at -20°C/-80°C upon receipt, aliquoting is necessary for mutiple use. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	Sirpa signal-regulatory protein alpha [<i>Rattus norvegicus</i>]
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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