

Recombinant Cynomolgus SIRPA protein, Fc-tagged

Cat. No. SIRPA-342C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Cynomolgus SIRPA protein (Glu31-Asn370), fused to human IgG1 Fc tag at C-terminus, was expressed in human 293 cells (HEK293).
Species	Cynomolgus
Source	HEK293
ProteinLength	340
Description	Tyrosine-protein phosphatase non-receptor type substrate 1 (SHPS1) is also known as CD172 antigen-like family member A (CD172a), Macrophage fusion receptor, MyD-1 antigen, Signal-regulatory protein alpha (SIRPA or SIRP alpha) or p84, is a member of the SIRP family, and also belongs to the immunoglobulin superfamily. SIRP alpha is Ubiquitous and highly expressed in brain. SIRPA/CD172a is immunoglobulin-like cell surface receptor for CD47 and acts as docking protein and induces translocation of PTPN6, PTPN11 and other binding partners from the cytosol to the plasma membrane. SIRPA/SHPS-1 supports adhesion of cerebellar neurons, neurite outgrowth and glial cell attachment and may play a key role in intracellular signaling during synaptogenesis and in synaptic function By similarity. SIRPA/MyD1 involved in the negative regulation of receptor tyrosine kinase-coupled cellular responses induced by cell adhesion, growth factors or insulin and mediates negative regulation of phagocytosis, mast cell activation and dendritic cell activation. CD47 binding prevents maturation of immature dendritic cells and inhibits cytokine production by mature dendritic cells.

 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

Form	Lyophilized from 0.22 um filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 63.6 kDa. The protein migrates as 70-80 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per ug by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
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
Official Symbol	SIRPA
Synonyms	BIT, CD172A, MFR, MYD-1, P84, PTPNS1, SHPS1, SIRP
Gene ID	717811
mRNA Refseq	NM_001284750.1

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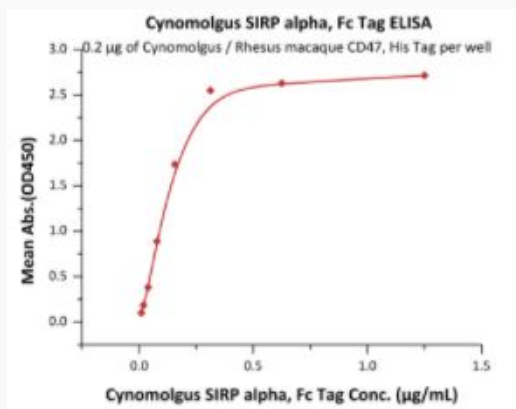
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Protein Refseq NP_001271679.1

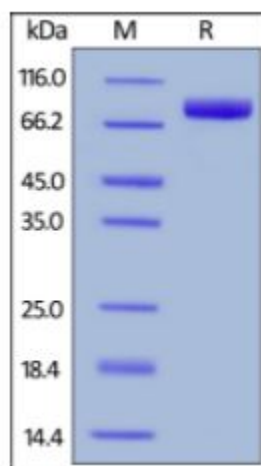
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**Bioactivity-ELISA of
SIRPA-342C**



Immobilized Cynomolgus/Rhesus macaque CD47, His Tag at 2 µg/mL (100 µL/well) can bind Cynomolgus SIRP alpha, Fc Tag with a linear range of 0.01-0.3 µg/mL (QC tested).

SDS-PAGE of SIRPA-342C



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Cynomolgus SIRP alpha, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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