

Product datasheet

Recombinant Human SIRP alpha protein (His tag) (Biotin) ab198765

1 Image

Description

Product name	Recombinant Human SIRP alpha protein (His tag) (Biotin)
Purity	>= 90 % SDS-PAGE.
Expression system	HEK 293 cells
Accession	<u>P78324</u>
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	GVAGEEELQVIQPKSVLVAAGETATLRCTATSLIPVGPIQ WFRGAGPGR ELYNQKEGHFPRVTTVSDLTKRNNMDFSIRIGNITPADAGT YYCVKFRK GSPDDVEFKSGAGTELSVRAKPSAPVVSGPAARATPQH TVSFTCESHGFS PRDITLKWFKNGNELSDFQTNVDPVGESVSYSIHSTAKVV LTREDVHSQV ICEVAHVTLQGDPLRG TANLSETIRVPPTLEV TQQPVRAEN QVNVTCQVR KFYPQRLQLTWLENGNVSR TETASTVTENKDGTYNWMSW LLVNVSAHRDD VKLTCQVEHDGQPAVSKSHDLKVS AHPKEQGSNTAAEN TGSNERGGGLND IFEAQKIEWHEHHHHHH
Predicted molecular weight	40 kDa including tags
Amino acids	27 to 370
Tags	His tag C-Terminus
Additional sequence information	C-terminal Avi and His tags. Enzymatically biotinylated using Avi-tag™ technology. NP_542970. (aa 27-370 corresponds to the extracellular portion of SIRP alpha).
Conjugation	Biotin

Specifications

## Specifications

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Our **Abpromise guarantee** covers the use of **ab198765** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

**Applications** SDS-PAGE

**Form** Liquid

## Preparation and Storage

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**Stability and Storage** Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle.  
pH: 7.4  
Constituents: 0.63% Tris HCl, 0.64% Sodium chloride, 0.02% Potassium chloride, 20% Glycerol (glycerin, glycerine)

## General Info

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**Function** Immunoglobulin-like cell surface receptor for CD47. Acts as docking protein and induces translocation of PTPN6, PTPN11 and other binding partners from the cytosol to the plasma membrane. Supports adhesion of cerebellar neurons, neurite outgrowth and glial cell attachment. May play a key role in intracellular signaling during synaptogenesis and in synaptic function (By similarity). Involved in the negative regulation of receptor tyrosine kinase-coupled cellular responses induced by cell adhesion, growth factors or insulin. 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.

**Tissue specificity** Ubiquitous. Highly expressed in brain. Detected on myeloid cells, but not T-cells. Detected at lower levels in heart, placenta, lung, testis, ovary, colon, liver, small intestine, prostate, spleen, kidney, skeletal muscle and pancreas.

**Sequence similarities** Contains 2 Ig-like C1-type (immunoglobulin-like) domains.  
Contains 1 Ig-like V-type (immunoglobulin-like) domain.

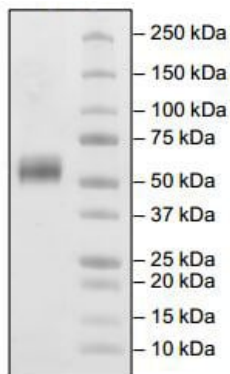
**Post-translational modifications** N-glycosylated.  
Phosphorylated on tyrosine residues in response to stimulation with EGF, growth hormone, insulin and PDGF. Dephosphorylated by PTPN11.

**Cellular localization** Membrane.

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## Images

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SDS-PAGE - Recombinant Human SIRP alpha protein (His tag) (Biotin) (ab198765)

4-20% SDS-PAGE analysis of 2.7 µg ab198765 with Coomassie staining.

Note: SIRP alpha is heavily glycosylated, resulting in higher molecular weight.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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