

Product datasheet

Recombinant Human SIRP alpha protein (His tag)
 ab271743

1 Image

Description

Product name	Recombinant Human SIRP alpha protein (His tag)	
Purity	>= 90 % SDS-PAGE.	
Expression system	HEK 293 cells	
Accession	P78324	
Protein length	Protein fragment	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence	GVAGEEELQVIQPKSVLVAAGETATLRCTATSLIPVGPIQ WFRGAGPGR ELYNQKEGHFPRVTTVSDLTKRNNMDFSIRIGNITPADAGT YCVKFRK GSPDDVEFKSGAGTELSVRAKPSAPVVSGPAARATPQH TVSFTCESHGFS PRDITLKWFKNGNELSDFQTNVDPVGESVSYSIHSTAKVV LTREDEVHSQV ICEVAHVTLQGDPLRGTANLSETIRVPPTLEVTQQPVRAEN QVNVTCQVR KFYPQRLQLTWLENGNVSRTETASTVTENKDGTYNWMSW LLVNVSAHRDD VKLTCQVEHDGQPAVSKSHDLK/SAHPKEQGSNTAAEN TGSNER	
Predicted molecular weight	38 kDa including tags	
Amino acids	27 to 370	
Tags	His tag C-Terminus	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab271743** 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

Stability and Storage Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle.
pH: 8.00
Constituents: 0.63% Tris HCl, 0.64% Sodium chloride, 0.02% Potassium chloride, 20% Glycerol (glycerin, glycerine)

General Info

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.

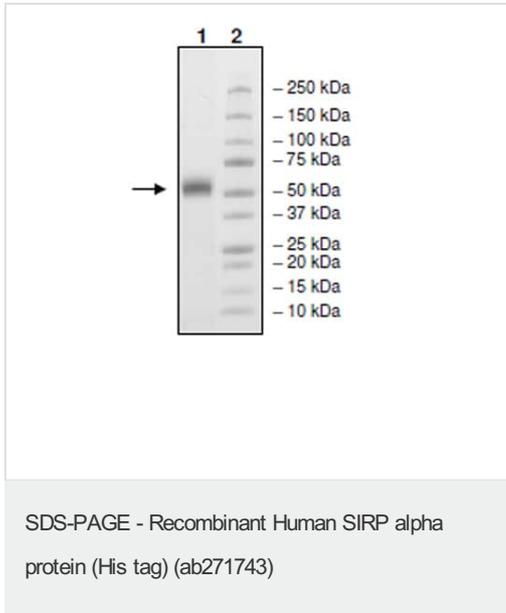
Tissue specificity Ubiquitous. Highly expressed in brain. Detected on myeloid cells, but not T-cells. Detected at lower levels in heart, placenta, lung, testis, ovary, colon, liver, small intestine, prostate, spleen, kidney, skeletal muscle and pancreas.

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.

Images



SDS-PAGE analysis of 2.7 µg ab271743.

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

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