

Product datasheet

Recombinant Human SIRP alpha protein ab151920

Description

Product name	Recombinant Human SIRP alpha protein
Purity	> 95 % SDS-PAGE. Purity is greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Endotoxin level	< 1.000 Eu/μg
Expression system	HEK 293 cells
Accession	<u>P78324</u>
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	EEELQVIQPDKSVSVAAGESAILHCTVTSLIPVGPIQWFRG AGPARELIY NQKEGHFPRVTTVSESTKRENMDFSISISNITPADAGTYYC VKFRKGSPD TEFKSGAGTELSVRAKPSAPVVSGPAARATPQHTVSFTC ESHGFSPRDIT LKWFKNGNELSDFQTNVDPVGESVSYSIHSTAKVVLTRE DVHSQVICEVA HVTLQGDPLRG TANLSETIRVPPTLEV TQQPVRAENQVNV TCQVRKFYPQ RLQLTWLENGNVSR TETASTVTENKDGTYNWMSWLLVNV SAHRDDVKLTC QVEHDGQPAVSKSHDLKVS AHPKEQGSNTAAENTGSNE RNVDHHHHHH
Predicted molecular weight	38 kDa including tags
Amino acids	31 to 370
Tags	His tag C-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab151920** 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

	HPLC
Form	Lyophilized
Preparation and Storage	
Stability and Storage	<p>Shipped at 4°C. The lyophilized protein is stable for a few weeks at room temperature. Store at -20°C long term.</p> <p>pH: 7.4</p> <p>Constituents: 99% Phosphate Buffer, 0.88% Sodium chloride</p>
Reconstitution	<p>Always centrifuge tubes before opening. Do not mix by vortex or pipetting. Dissolve the lyophilized protein in 1X PBS. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. For long term storage aliquot and store at < -20°C.</p>
General Info	
Function	<p>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.</p>
Tissue specificity	<p>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.</p>
Sequence similarities	<p>Contains 2 Ig-like C1-type (immunoglobulin-like) domains.</p> <p>Contains 1 Ig-like V-type (immunoglobulin-like) domain.</p>
Post-translational modifications	<p>N-glycosylated.</p> <p>Phosphorylated on tyrosine residues in response to stimulation with EGF, growth hormone, insulin and PDGF. Dephosphorylated by PTPN11.</p>
Cellular localization	<p>Membrane.</p>

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

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