

Product datasheet

Recombinant Human SIRP alpha protein (Fc Chimera)
 ab217557

1 Image

Description

Product name	Recombinant Human SIRP alpha protein (Fc Chimera)
Purity	> 95 % SDS-PAGE.
Endotoxin level	< 1.000 Eu/μg
Expression system	HEK 293 cells
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human

Sequence

EEELQVIQPKSVSVAAGESAILHCTVTSVIPVGPQWFRG
 AGPARELIY
 NQKEGHFPRVTTVSESTKRENMDFSISISNITPADAGTYIC
 VKFRKGSPD
 TEFKSGAGTELSVRAKPSAPVVS GPAARATPQHTVSFTC
 ESHGFSPRDI
 LKWFKNGNELSDFQTNVDPVGESVSYIHSTAKVVLTR
 DVHSQVICEVA
 HVTLQGDPLRGTANLSETIRVPPTLEVTQQPVRAENQVNV
 TCQVRKFYPQ
 RLQLTWLENGNVSRTETASTVTENKDGTYNWMSWLLVNV
 SAHRDDVKLTC
 QVEHDGQPAVSKSHDLK/SAHPKEQGSNTAAENTGSNE
 RDIEGRMDEPKS
 CDKTHTCPPELPGPSVFLFPPKPKDTLMISRTPEV
 TCVVVDVSHE
 DPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTV
 LHQDWLNGKEY
 KCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMT
 KNQVSLTCLV
 KGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYS
 KLTVDKSRWQQ
 GNVFSCSVMHEALHNHYTQKSLSLSPGK

Predicted molecular weight	64 kDa including tags
Amino acids	31 to 370
Additional sequence information	Expressed with a Fc tag at the C-terminus.

Specifications

Our [Abpromise guarantee](#) covers the use of **ab217557** 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 Lyophilized

Preparation and Storage

Stability and Storage Shipped at 4°C. Store at -20°C long term. Avoid freeze / thaw cycle.

pH: 7.40

Constituent: 100% PBS

Lyophilized from a 0.2 µm filtered solution.

Reconstitution Dissolve the lyophilized protein in ddH₂O. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

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.

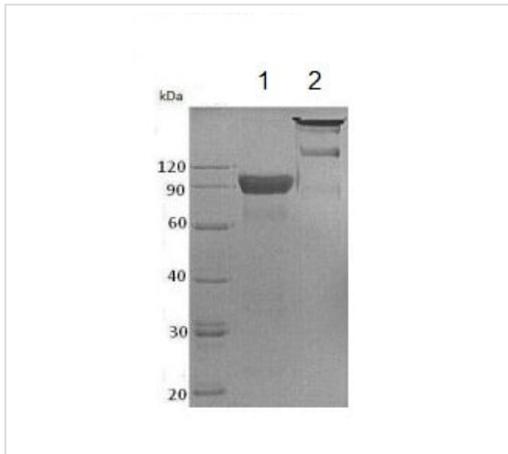
Tissue specificity Ubiquitous. Highly expressed in brain. Detected on myeloid cells, but not T-cells. Detected at lower levels in heart, placenta, lung, testis, ovary, colon, liver, small intestine, prostate, spleen, kidney, skeletal muscle and pancreas.

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 - Recombinant Human SIRP alpha protein (Fc Chimera) (ab217557)

SDS-PAGE analysis of ab217557.

Lane 1: Reduced sample.

Lane 2: Non reduced sample.

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

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