

Recombinant human SIRP alpha protein (Fc Chimera Active) ab221342

6 图像

描述	
产品名称	重组人SIRP alpha蛋白(Fc Chimera Active)
生物活性	<p>Measured by its binding ability in a functional ELISA. Recombinant human CD47 protein (Active) (ab174029) at 2 µg/mL (100 µL/well) can bind ab221342 with a linear range of 4-31 ng/mL.</p> <p>Measured by its binding ability in a functional ELISA. Serial dilutions of Anti-Human CD47 Neutralizing Antibody were added into ab221342: Recombinant human CD47 protein (Fc Chimera Active) (Biotin) (ab246018) binding reactions. The half maximal inhibitory concentration (IC50) is 0.2006 µg/mL.</p> <p>Measured by its binding ability in FACS. The binding of ab221342 to Jurkat expressing CD47 was inhibited by increasing concentration of neutralizing anti-CD47 antibody. The concentration of SIRP alpha used is 0.3 µg/ml. IC50=0.1318 µg/ml.</p> <p>Measured by its binding ability in FACS. Recombinant ab221342 can bind to Jurkat cell expressing CD47. The concentration of SIRP alpha used is 0.3 µg/ml.</p>
纯度	<p>> 95 % SDS-PAGE.</p> <p>>90% pure as determined by SEC-HPLC. Protein A purified.</p>
内毒素水平	< 1.000 Eu/µg
表达系统	HEK 293 cells
Accession	P78324
蛋白长度	Protein fragment
无动物成分	No
性质	Recombinant
种属	Human
序列	EEELQVIQPDKSVLVAAGETATLRCTATSLIPVGPIQWFRGA GPGRELIY NQKEGHFPRVTTVSDLTRNNMDFSIRIGNITPADAGTYICV KFRKGSPD DVEFKSGAGTELSVRAKPSAPVVSGPAARATPQHTVSFTCES HGFSPRDI TLKWFKNGNELSDFQTNVDPVGESVSYSIHSTAKVVL TREDV HSQVICEV AHVTLQGDPLRG TANLSETIRVPPTLEVTQQPVRAENQVNV T CQVRKFYP

QRLQLTWLENGNVSRTETASTVTENKDGTYNWMSWLLVNVSA
HRDDVKLT
CQVEHDGQPAVSKSHDLKVS AHPKEQGSNTAAENTGSNER

预测分子量	64 kDa including tags
氨基酸	31 to 370
标签	Fc tag C-Terminus
额外的序列信息	This protein carries a mouse IgG1 Fc tag at the C-terminus (Val 98-Lys 324; AAK53870.1). (NP_001035111).

技术指标

Our **Abpromise guarantee** covers the use of **ab221342** in the following tested applications.

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

应用	Flow Cytometry ELISA SDS-PAGE HPLC Functional Studies
形式	Lyophilized
补充说明	This product is stable after storage at: -20°C to -70°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.

制备和贮存

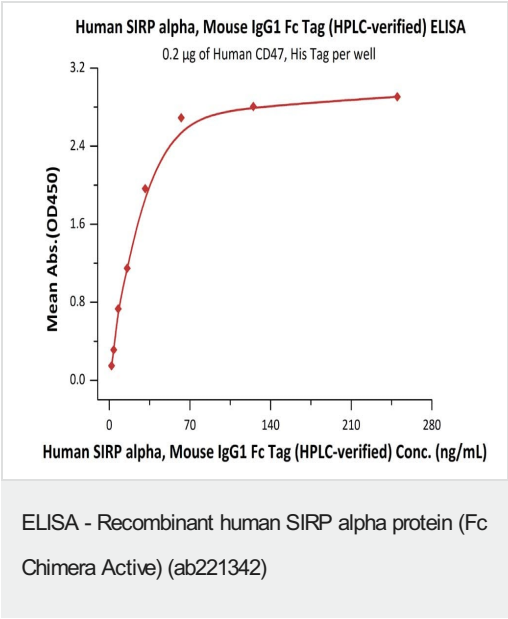
稳定性和存储	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 7.4 Constituents: 0.61% Tris, 0.75% Glycine, 5% Trehalose This product is an active protein and may elicit a biological response in vivo, handle with caution.
复溶	Reconstitute with sterile deionized water to a concentration of 500 µg/ml.

常规信息

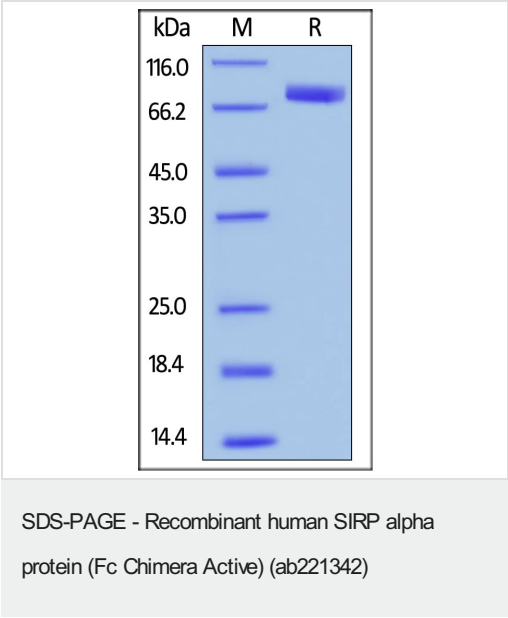
功能	Immunoglobulin-like cell surface receptor for CD47. Acts as docking protein and induces translocation of PTPN6, PTPN11 and other binding partners from the cytosol to the plasma membrane. Supports adhesion of cerebellar neurons, neurite outgrowth and glial cell attachment. May play a key role in intracellular 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.
组织特异性	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.

序列相似性	Contains 2 Ig-like C1-type (immunoglobulin-like) domains. Contains 1 Ig-like V-type (immunoglobulin-like) domain.
翻译后修饰	N-glycosylated. Phosphorylated on tyrosine residues in response to stimulation with EGF, growth hormone, insulin and PDGF. Dephosphorylated by PTPN11.
细胞定位	Membrane.

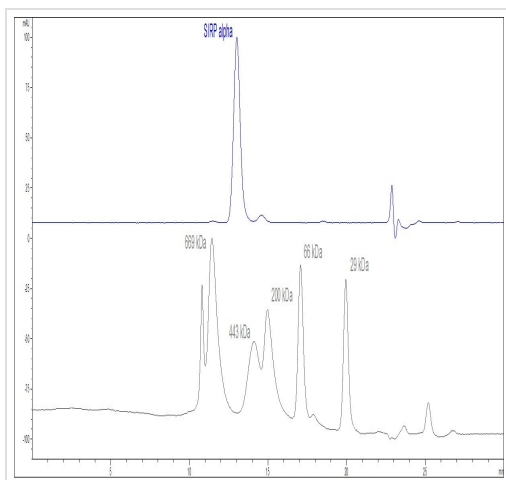
图片



Recombinant human CD47 protein (Active) (**ab174029**) at 2 µg/mL (100 µL/well) can bind ab221342 with a linear range of 4-31 ng/mL.

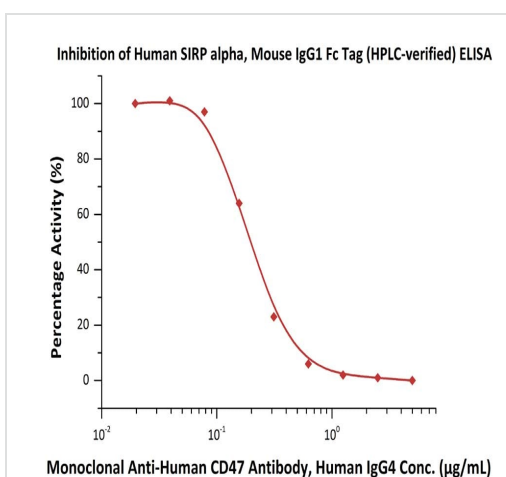


SDS PAGE of reduced ab221342 stained overnight with Coomassie Blue. The protein migrates as 70-105 kDa under reducing conditions due to glycosylation.



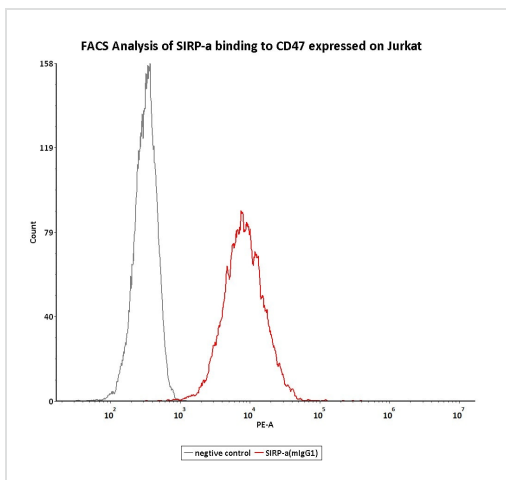
HPLC - Recombinant human SIRP alpha protein (Fc Chimera Active) (ab221342)

The purity of ab221342 was greater than 90% as determined by SEC-HPLC.



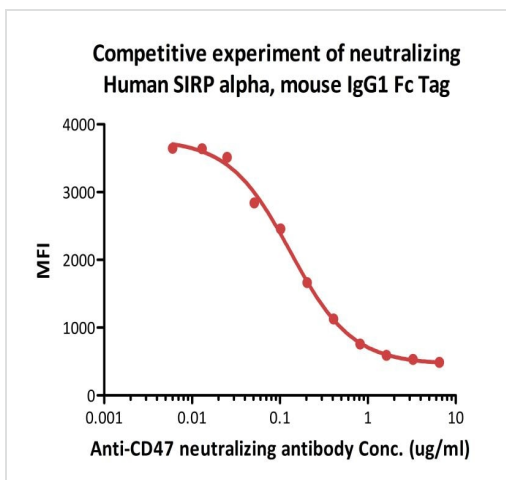
ELISA - Recombinant human SIRP alpha protein (Fc Chimera Active) (ab221342)

Serial dilutions of Anti-Human CD47 Neutralizing Antibody were added into ab221342: Recombinant human CD47 protein (Fc Chimera Active) (Biotin) (**ab246018**) binding reactions. The half maximal inhibitory concentration (IC₅₀) is 0.2006 µg/mL.



FACS assay shows that recombinant ab221342 can bind to Jurkat cell expressing CD47. The concentration of SIRP alpha used is 0.3 µg/ml.

Flow Cytometry - Recombinant human SIRP alpha protein (Fc Chimera Active) (ab221342)



FACS analysis shows that the binding of ab221342 to Jurkat expressing CD47 was inhibited by increasing concentration of neutralizing anti-CD47 antibody. The concentration of SIRP alpha used is 0.3 µg/ml. IC₅₀=0.1318 µg/ml.

Functional Studies - Recombinant human SIRP alpha protein (Fc Chimera Active) (ab221342)

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