

Recombinant human SIRP alpha protein (Fc Chimera Active) ab221342

画像数 6

製品の詳細

製品名	Recombinant human SIRP alpha protein (Fc Chimera Active)
生理活性	<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>
精製度	<p>> 95 % SDS-PAGE.</p> <p>>90% pure as determined by SEC-HPLC. Protein A purified.</p>
エンドトキシン・レベル	< 1.000 Eu/µg
発現系	HEK 293 cells
アクセッション番号	<u>P78324</u>
タンパク質長	Protein fragment
Animal free	No
由来	Recombinant
生物種	Human
配列	<pre> EEELQVIQPDKSVLVAAGETATLRCTATSLIPVGPIQWFRGA GPGRELIY NQKEGHFPRVTTVSDLTKRNNMDFSIRIGNITPADAGTYICV KFRKGSPD DVEFKSGAGTELSVRAKPSAPVVSGPAARATPQHTVSFTCES HGFSPRDI TLKWFKNGNELSDFQTNVDPVGESVSYSIHSTAKVVL TREDV HSQVICEV AHVTLQGDPLRG TANLSETIRVPPTLEVTQQPVRAENQVNV T CQVRKFYP </pre>

QRLQLTWLENGNVSRTETASTVTENKDGTYNWMSWLLVNVSA
HRDDVKLT
CQVEHDGQPAVSKSHDLKVS AHPKEQGSNTAAENTGSNER

予測される分子量	64 kDa including tags
領域	31 to 370
タグ	Fc tag C-Terminus
配列の追加情報	This protein carries a mouse IgG1 Fc tag at the C-terminus (Val 98-Lys 324; AAK53870.1). (NP_001035111).

特性

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.

アプリケーション	Flow Cytometry
	ELISA
	SDS-PAGE
	HPLC
	Functional Studies

製品の状態	Lyophilized
-------	-------------

備考	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.
----	---

前処理および保存

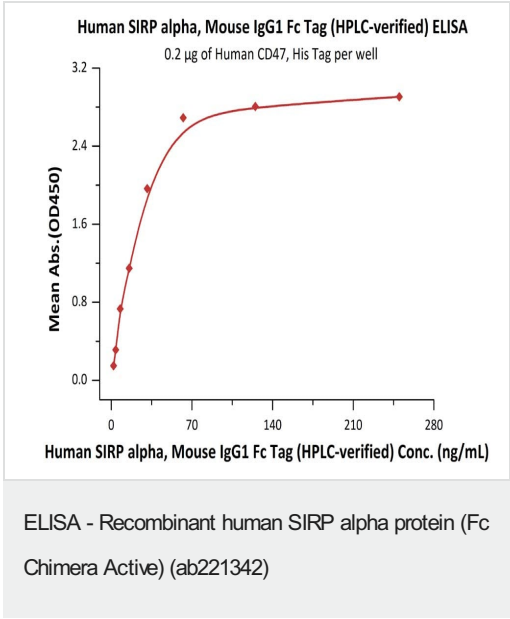
保存方法および安定性	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 7.4 Constituents: 0.61% Tris, 0.75% Glycine, 5% Trehalose This product is an active protein and may elicit a biological response in vivo, handle with caution.
再構成	Reconstitute with sterile deionized water to a concentration of 500 µg/ml.

関連情報

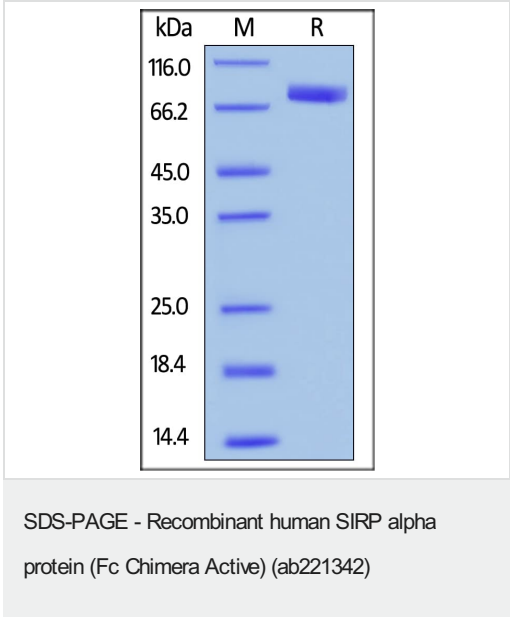
機能	Immunoglobulin-like cell surface receptor for CD47. Acts as docking protein and induces translocation of PTPN6, PTPN11 and other binding partners from the cytosol to the plasma membrane. Supports adhesion of cerebellar neurons, neurite outgrowth and glial cell attachment. May play a key role in intracellular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

配列類似性	Contains 2 Ig-like C1-type (immunoglobulin-like) domains. Contains 1 Ig-like V-type (immunoglobulin-like) domain.
翻訳後修飾	N-glycosylated. Phosphorylated on tyrosine residues in response to stimulation with EGF, growth hormone, insulin and PDGF. Dephosphorylated by PTPN11.
細胞内局在	Membrane.

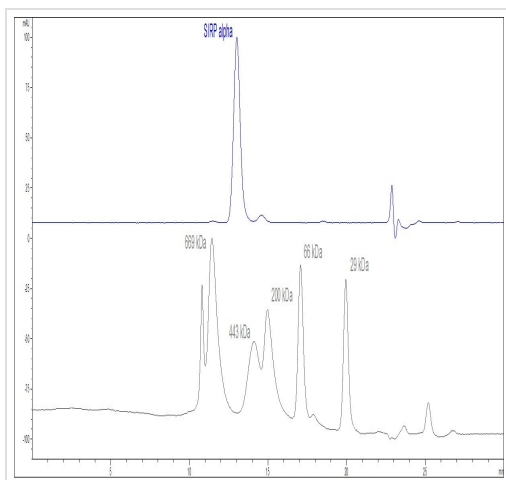
画像



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.

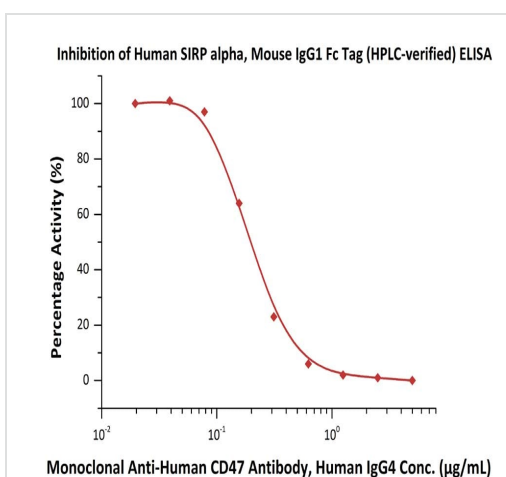


SDS PAGE of reduced ab221342 stained overnight with Coomassie Blue. The protein migrates as 70-105 kDa under reducing conditions due to glycosylation.



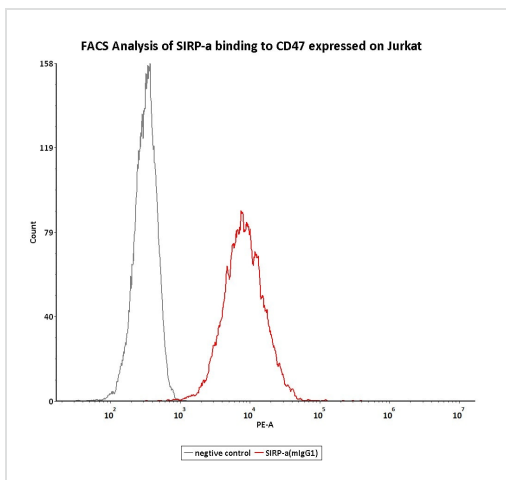
HPLC - Recombinant human SIRP alpha protein (Fc Chimera Active) (ab221342)

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



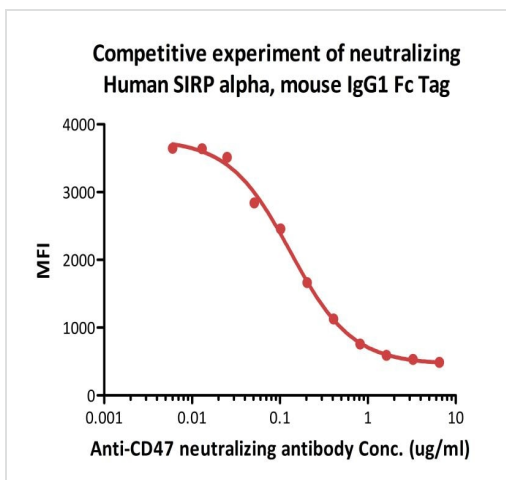
ELISA - Recombinant human SIRP alpha protein (Fc Chimera Active) (ab221342)

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)

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

Our Promise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.co.jp/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors