

Recombinant human CD47 protein (Fc Chimera Active) ab220587

画像数 6

製品の詳細

製品名	Recombinant human CD47 protein (Fc Chimera Active)	
生理活性	Measured by its binding ability in a functional ELISA. Immobilized ab220587 at 2 µg/mL (100 µL/well) can bind Human SIRP alpha, His Tag with a linear range of 0.016-0.5 µg/mL.	
精製度	> 95 % SDS-PAGE. >90% as determined by SEC-MALS.	
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	Q08722-3	
タンパク質長	Protein fragment	
Animal free	No	
由来	Recombinant	
生物種	Human	
配列	QLLFNKTKSVEFTFCNDTVVIPCFTVNMEAQNTTEVYVKWKF KGRDIYTF DGALNKSTVPTDFSSAKIEVSQLLKGDASLKMDKSDAVSHTG NYTCEVTE LTREGETIIEELKYRVVSWFSP	
予測される分子量	40 kDa including tags	
領域	19 to 139	
タグ	Fc tag C-Terminus	
配列の追加情報	Fused with a human IgG1 Fc tag (Pro 100 - Lys 330; P01857) at the C-terminus (NP_942088).	

特性

Our **Abpromise guarantee** covers the use of **ab220587** 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	Functional Studies
	SDS-PAGE
	Flow Cytometry

製品の状態

Lyophilized

前処理および保存**保存方法および安定性**

Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 7.4

Constituents: 0.61% Tris, 0.75% Glycine, 5% Trehalose

Lyophilized from 0.22 µm filtered solution.

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 1 mg/ml.

関連情報**機能**

Has a role in both cell adhesion by acting as an adhesion receptor for THBS1 on platelets, and in the modulation of integrins. Plays an important role in memory formation and synaptic plasticity in the hippocampus (By similarity). Receptor for SIRPA, binding to which prevents maturation of immature dendritic cells and inhibits cytokine production by mature dendritic cells. Interaction with SIRPG mediates cell-cell adhesion, enhances superantigen-dependent T-cell-mediated proliferation and costimulates T-cell activation. May play a role in membrane transport and/or integrin dependent signal transduction. May prevent premature elimination of red blood cells. May be involved in membrane permeability changes induced following virus infection.

組織特異性

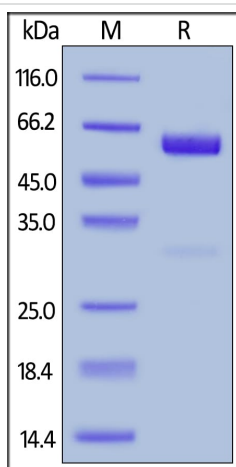
Very broadly distributed on normal adult tissues, as well as ovarian tumors, being especially abundant in some epithelia and the brain.

配列類似性

Contains 1 Ig-like V-type (immunoglobulin-like) domain.

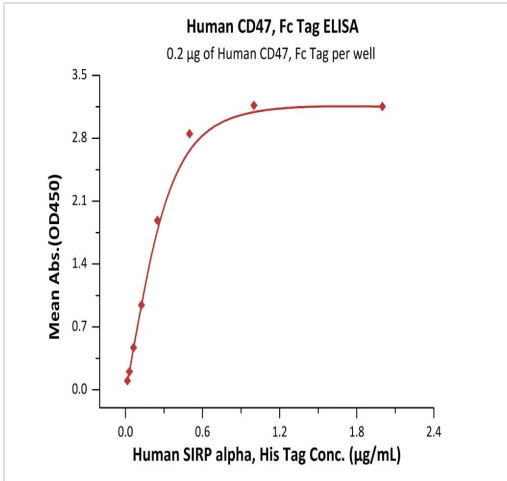
細胞内局在

Cell membrane.

画像

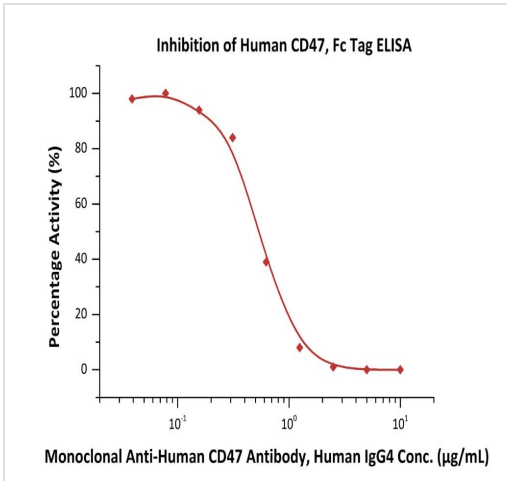
Human CD47 (Fc Tag) on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

SDS-PAGE - Recombinant human CD47 protein (Fc Chimera Active) (ab220587)



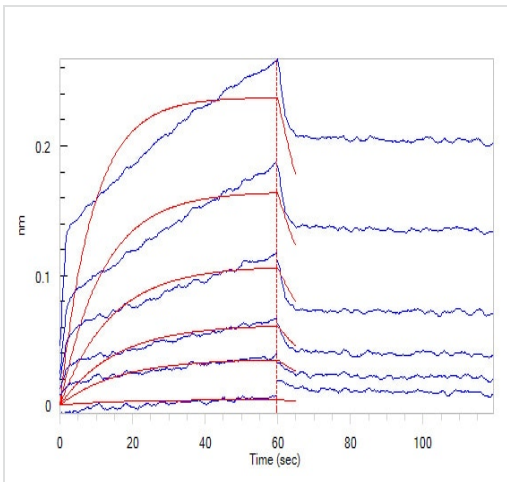
Functional Studies - Recombinant human CD47 protein (Fc Chimera Active) (ab220587)

Immobilized ab220587 at 2 µg/mL (100 µL/well) can bind Human SIRP alpha, His Tag (HPLC-verified) with a linear range of 0.016-0.5 µg/mL.



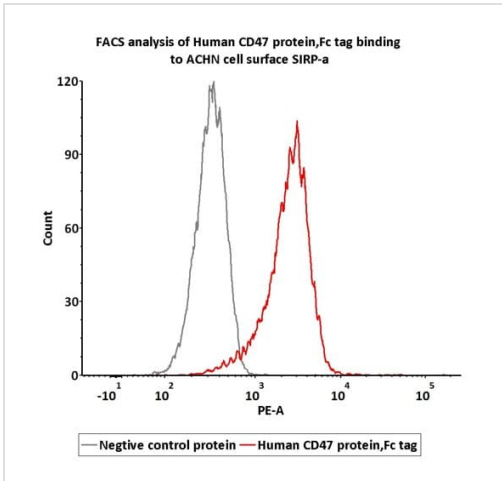
ELISA - Recombinant human CD47 protein (Fc Chimera Active) (ab220587)

Serial dilutions of Anti-Human CD47 Neutralizing Antibody were added into Human CD47, Fc Tag (HPLC-verified) (ab220587): Biotinylated Human SIRP alpha, Fc,Avitag (**ab246052**) binding reactions. The half maximal inhibitory concentration (IC50) is 0.5431 µg/mL



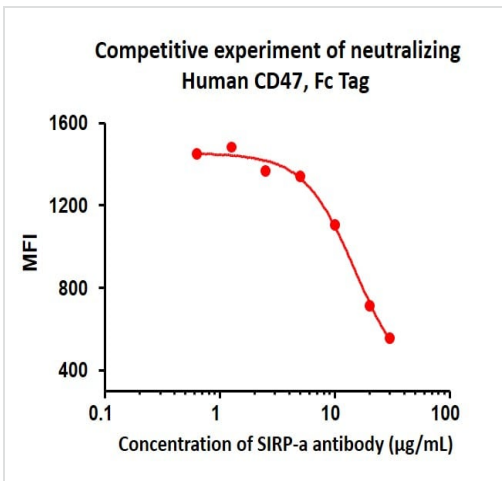
Biological activity - Recombinant human CD47 protein (Fc Chimera Active) (ab220587)

Loaded Recombinant human CD47 protein (Fc Chimera Active) (ab220587) on Protein A Biosensor, can bind Human SIRP alpha, His Tag (HPLC-verified) (**ab174006**) with an affinity constant of 1.1 µM as determined in BLI assay



FACS assay shows that ab220587 can bind to ACHN cell expressing SIRP-a. The concentration of CD47 used is 10 µg/mL.

Flow Cytometry - Recombinant human CD47 protein (Fc Chimera Active) (ab220587)



FACS analysis shows that the binding of Human CD47 to ACHN expressing SIRP-a was inhibited by increasing concentration of neutralizing SIRP-a antibody. The concentration of Human CD47 used is 10 µg/mL. IC50=8.39 µg/mL

Biological activity - Recombinant human CD47 protein (Fc Chimera Active) (ab220587)

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