

Recombinant human CD47 protein (Fc Chimera Active) ab220559

5 Images

Description

Product name	Recombinant human CD47 protein (Fc Chimera Active)
Biological activity	<p>Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human SIRP alpha protein (ab174006) at 2 µg/mL (100 µL/well) can bind Recombinant human CD47 protein (ab220559) with a linear range of 1-31 ng/mL.</p> <p>Measured by its binding ability in FACS. The binding of Recombinant human CD47 protein (ab220559) to ACHN expressing SIRP-a was inhibited by increasing concentration of neutralizing SIRP-a antibody. The concentration of ab220559 used is 10 µg/mL. IC50=8.39 µg/mL.</p> <p>Measured by its binding ability in FACS. Human CD47, Mouse IgG2a Fc Tag, low endotoxin (ab220559) can bind to ACHN cell expressing human SIRP-a. The concentration of CD47 used is 10 µg/mL.</p> <p>Measured by its binding ability in a BLI assay. Loaded Recombinant human CD47 protein (ab220559) on Protein A Biosensor, can bind Recombinant Human SIRP alpha protein (ab174006) with an affinity constant of 1.1 µM.</p>
Purity	> 95 % SDS-PAGE.
Endotoxin level	< 1.000 Eu/µg
Expression system	HEK 293 cells
Accession	<u>Q08722-3</u>
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	QL LFNKTKSVEF TFCNDTVVIP CFVTNMEAQN TTEVYVKWK F KGRDITFDG ALNKSTVPTD FSSAKIEVSQ LLKGDA SLKM DKSDAVSHTG NYTCEVTELT REGETIIE LK YRVVSWFSP
Predicted molecular weight	41 kDa including tags
Amino acids	19 to 139
Tags	Fc tag C-Terminus
Additional sequence information	This protein carries a mouse IgG2a Fc tag ((Glu 98-Lys 330) P01863) at the C-terminus

(NP_942088).

Specifications

Our **Abpromise guarantee** covers the use of **ab220559** in the following tested applications.

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

Applications	Functional Studies
	SDS-PAGE
	Flow Cytometry
	ELISA
Form	Lyophilized

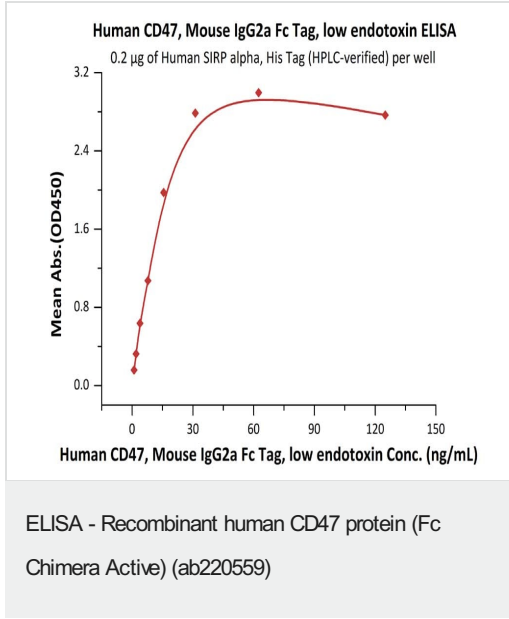
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at 4°C (stable for up to 12 months). Store at -20°C or -80°C. Avoid freeze / thaw cycle. Working aliquots stored with a carrier protein are stable for at least 3 months at -20°C to -80°C..
	pH: 7.4
	Constituents: 0.61% Tris, 0.75% Glycine, 5% Trehalose
	Lyophilized from 0.22 µm filtered solution.
Reconstitution	This product is an active protein and may elicit a biological response in vivo, handle with caution.
	Reconstitute with sterile deionized water to a concentration of 400 µg/ml.

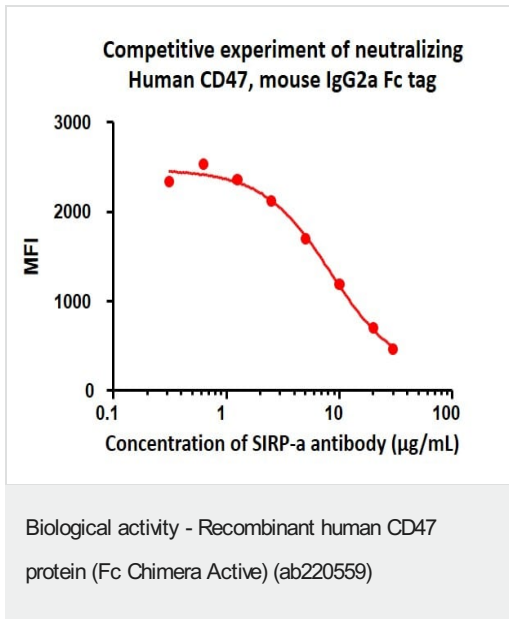
General Info

Function	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.
Tissue specificity	Very broadly distributed on normal adult tissues, as well as ovarian tumors, being especially abundant in some epithelia and the brain.
Sequence similarities	Contains 1 Ig-like V-type (immunoglobulin-like) domain.
Cellular localization	Cell membrane.

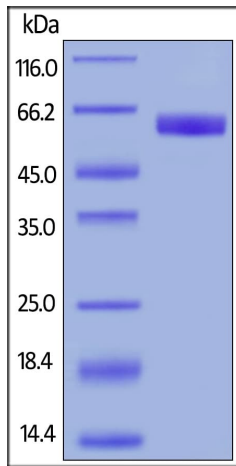
Images



Immobilized Recombinant Human SIRP alpha protein ([ab174006](#)) at 2 µg/mL (100 µL/well) can bind Recombinant human CD47 protein (ab220559) with a linear range of 1-31 ng/mL.

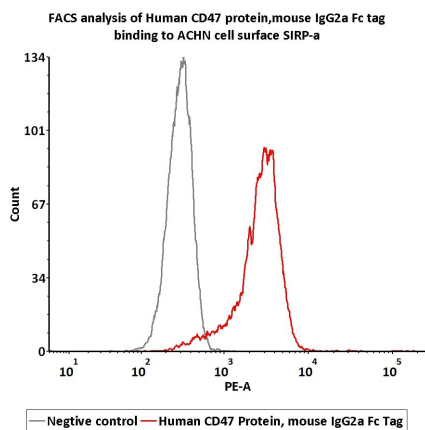


FACS analysis shows that the binding of Recombinant human CD47 protein (ab220559) to ACHN expressing SIRP-a was inhibited by increasing concentration of neutralizing SIRP-a antibody. The concentration of ab220559 used is 10 µg/mL. IC50=8.39 µg/mL.



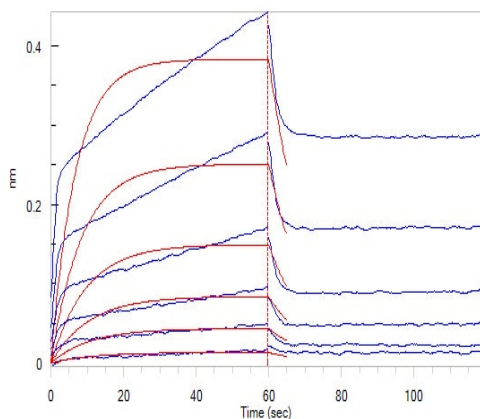
SDS-PAGE of reduced ab220559 stained overnight with Coomassie Blue. The protein migrates as 55-66 kDa due to glycosylation.

ELISA - Recombinant human CD47 protein (Fc Chimera Active) (ab220559)



FACS assay shows that Recombinant human CD47 protein (ab220559) can bind to ACHN cell expressing human SIRP-a. The concentration of ab220559 used is 10 $\mu\text{g/mL}$.

Biological activity - Recombinant human CD47 protein (Fc Chimera Active) (ab220559)



Loaded Recombinant human CD47 protein (ab220559) on Protein A Biosensor, can bind Recombinant Human SIRP alpha protein (**ab174006**) with an affinity constant of 1.1 μM as determined in BLI assay.

Biological activity - Recombinant human CD47 protein (Fc Chimera Active) (ab220559)

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