

Product datasheet

Recombinant rat CD47 protein (Fc Chimera Active) ab220571

[2 Images](#)

Description

Product name	Recombinant rat CD47 protein (Fc Chimera Active)		
Biological activity	Immobilized Mouse SIRP alpha, Mouse IgG2a Fc Tag at 10 µg/mL (100 µL/well) can bind Rat CD47, Fc Tag (ab220571) with a linear range of 2-20 ng/mL.		
Purity	> 95 % SDS-PAGE.		
Endotoxin level	< 1.000 Eu/µg		
Expression system	HEK 293 cells		
Accession	<u>P97829</u>		
Protein length	Protein fragment		
Animal free	No		
Nature	Recombinant		
Species	Rat		
Sequence	QLLLSKVKSVEFTSCNDTVVIPCKVLNVEAQSTDEMFVK WKLNKSYIFIY DGNKNSTTREQNFTSAKISVSDLLKGIASLTMDTHEAVVG NYTCEVTELS REGKTVIELKNRPVSWFSTNEK		
Predicted molecular weight	40 kDa		
Amino acids	19 to 140		
Tags	Fc tag C-Terminus		
Additional sequence information	This protein carries a human IgG1 Fc tag at the C-terminus.		

Specifications

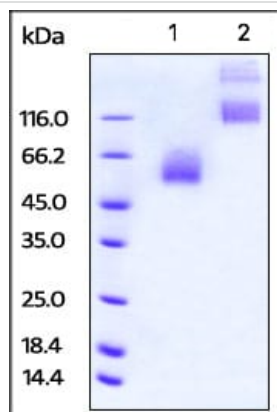
Our **Abpromise guarantee** covers the use of **ab220571** in the following tested applications.

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

Applications	SDS-PAGE
	ELISA
Form	Lyophilized

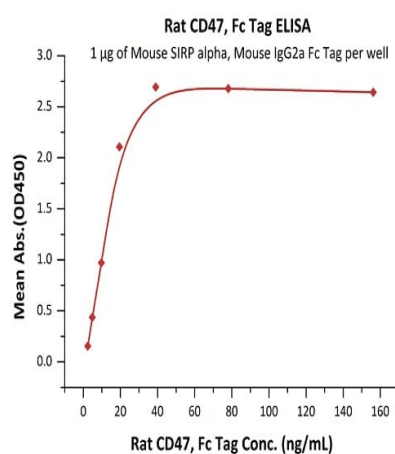
Additional notes	<p>This product is stable after storage at:</p> <p>-20 °C to -70 °C for 12 months in lyophilized state;</p> <p>-70 °C for 3 months under sterile conditions after reconstitution.</p>
Preparation and Storage	
Stability and Storage	<p>Shipped at 4 °C. Upon delivery aliquot. Store at -20 °C or -80 °C. Avoid freeze / thaw cycle. Please see notes section.</p> <p>pH: 7.4</p> <p>Constituents: 0.61% Tris, 0.75% Glycine, 5% Trehalose, 0.44% L-Arginine, 0.87% Sodium chloride</p> <p>Lyophilized from 0.22 µm filtered solution.</p> <p>This product is an active protein and may elicit a biological response in vivo, handle with caution.</p>
Reconstitution	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



SDS-PAGE - Recombinant Rat CD47 protein (Fc Chimera) (ab220571)

ab220571 on SDS-PAGE under reducing (lane 1) and no-reducing (lane 2) conditions. The gel was stained overnight with Coomassie Blue. As a result of glycosylation, the reduced protein migrates at 50-66 kDa and the non-reduced protein migrates at 100-130 kDa.



ELISA - Recombinant Rat CD47 protein (Fc Chimera) (ab220571)

Immobilized Mouse SIRP alpha, Mouse IgG2a Fc Tag at 10 µg/mL (100 µL/well) can bind Rat CD47, Fc Tag (ab220571) with a linear range of 2-20 ng/mL.

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

Our Abpromise 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.com/abpromise> or contact our technical team.

Terms and conditions

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