

Datasheet for ABIN4949205

CD47 Protein (CD47) (AA 19-140) (Fc Tag)[Go to Product page](#)**2** Images

Overview

Quantity:	100 µg
Target:	CD47
Protein Characteristics:	AA 19-140
Origin:	Rat
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD47 protein is labelled with Fc Tag.
Application:	Functional Studies (Func)

Product Details

Sequence:	AA 19-140
Characteristics:	This protein carries a human IgG1 Fc tag at the C-terminus. The protein has a calculated MW of 40.4 kDa. As a result of glycosylation, the protein migrates as 50-66 kDa under reducing (R) condition, and 100-130 kDa under non-reducing (NR) condition (SDS-PAGE).
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	CD47
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Target Details

Alternative Name: CD47 ([CD47 Products](#))

Background: Leukocyte surface antigen CD47 is also known as Antigenic surface determinant protein OA3, Integrin-associated protein (IAP) and Protein MER6. CD47 contains 1 Ig-like V-type (immunoglobulin-like) domain. CD47 is very broadly distributed on normal adult tissues. CD47 has a role in both cell adhesion by acting as an adhesion receptor for THBS1 on platelets, and in the modulation of integrins and plays an important role in memory formation and synaptic plasticity in the hippocampus by similarity. CD47 is the receptor for SIRPA, binding to which prevents maturation of immature dendritic cells and inhibits cytokine production by mature dendritic cells. CD47 Interaction with SIRPG mediates cell-cell adhesion, enhances superantigen-dependent T-cell-mediated proliferation and costimulates T-cell activation.

Molecular Weight: 40.4 kDa

UniProt: [P97829](#)

Application Details

Restrictions: For Research Use only

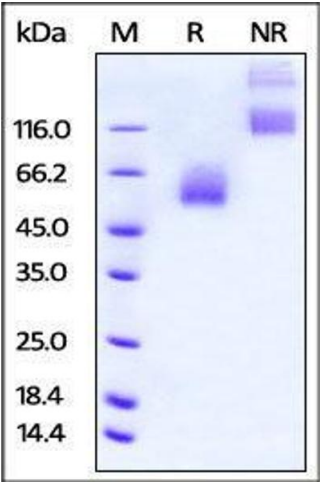
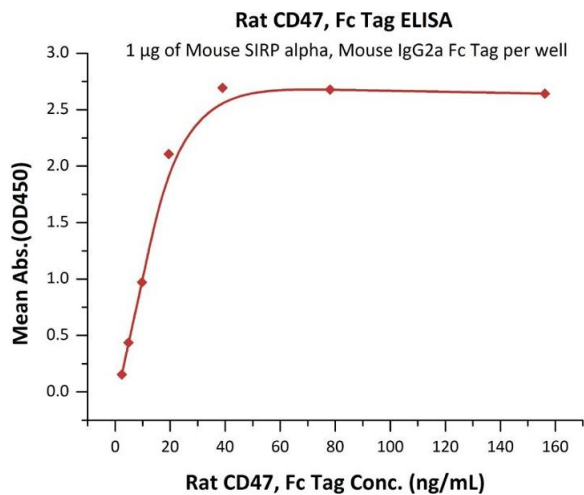
Handling

Format: Lyophilized

Buffer: Tris with Glycine, Arginine and NaCl, pH 7.5

Handling Advice: Please avoid repeated freeze-thaw cycles.

Storage: -20 °C



ELISA

Image 1. Immobilized Mouse SIRP alpha, Mouse IgG2a Fc Tag (ABIN5955018,ABIN6253632) at 10 µg/mL (100 µL/well) can bind Rat CD47, Fc Tag (ABIN4949204,ABIN4949205) with a linear range of 2-20 ng/mL (QC tested).

SDS-PAGE

Image 2. Rat CD47, Fc Tag on SDS-PAGE under reducing (R) and no-reducing (NR) conditions. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.