

Datasheet for ABIN4949217

CD47 Protein (CD47) (AA 19-139) (His tag,AVI tag)[Go to Product page](#)**3** Images

Overview

Quantity:	50 µg
Target:	CD47
Protein Characteristics:	AA 19-139
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD47 protein is labelled with His tag,AVI tag.
Application:	Functional Studies (Func)

Product Details

Sequence:	AA 19-139
Characteristics:	This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag. The protein has a calculated MW of 16.9 kDa. The protein migrates as 33-44 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
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: 16.9 kDa

NCBI Accession: [NP_942088](#)

Application Details

Restrictions: For Research Use only

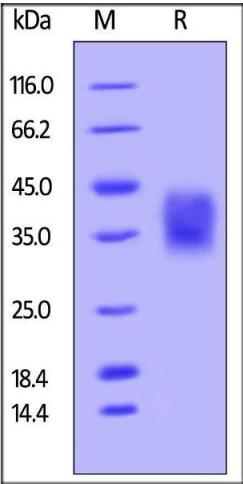
Handling

Format: Lyophilized

Buffer: 10 mM Bicine, pH 8.3

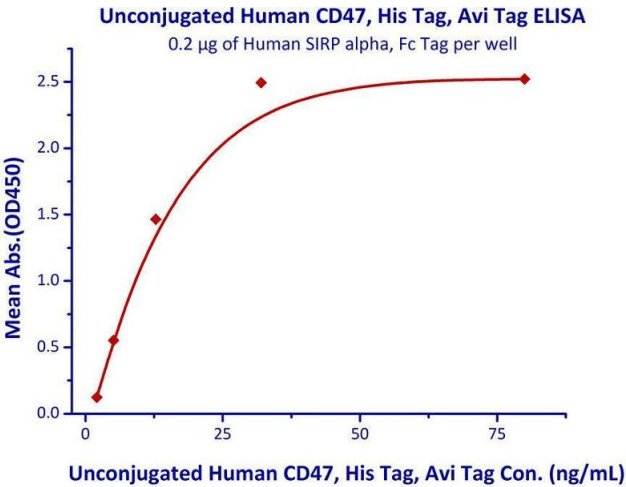
Handling Advice: Please avoid repeated freeze-thaw cycles.

Storage: -20 °C



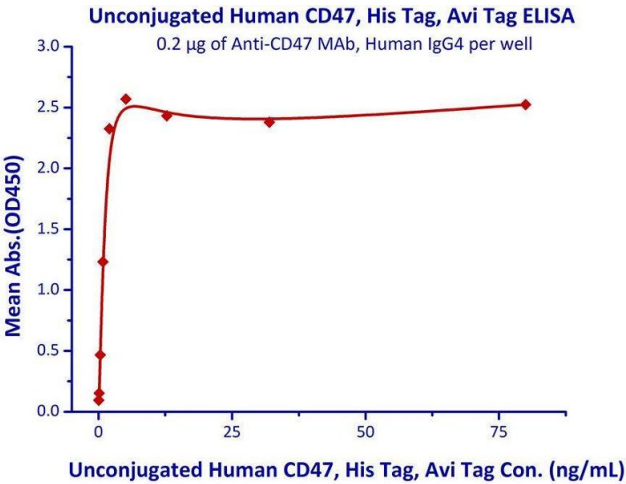
SDS-PAGE

Image 1. Unconjugated Human CD47, His Tag & Avi 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%.



Binding Studies

Image 2. Immobilized Human SIRP alpha, Fc Tag with a linear range of 2-12.8 ng/mL.



Binding Studies

Image 3. Immobilized Anti-CD47 MAb, Human IgG4 at 2 µg/mL (100 µL/well) can bind Unconjugated Human CD47, His Tag, Avi Tag with a linear range of 0.05-2.05 ng/mL.