

Recombinant CD47 protein, His/Avi-tagged

Cat. No. CD47-333H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD47 protein (Gln19-Pro139), fused to His/Avi tag at C-terminus, was expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	121
Description	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.
Form	Lyophilized from 0.22 um filtered solution in 10 mM Bicine, pH8.3, 10% trehalose.
Molecular Mass	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.

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Endotoxin	Less than 1.0 EU per ug by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

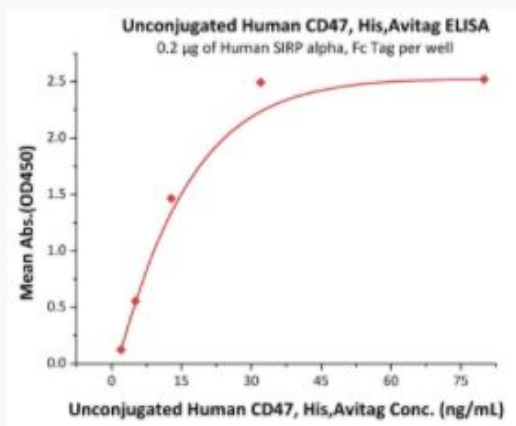
Gene Name	CD47
Official Symbol	CD47
Synonyms	IAP; OA3; MER6
Gene ID	961
mRNA Refseq	NM_198793.2
Protein Refseq	NP_942088.1
MIM	601028
UniProt ID	Q08722

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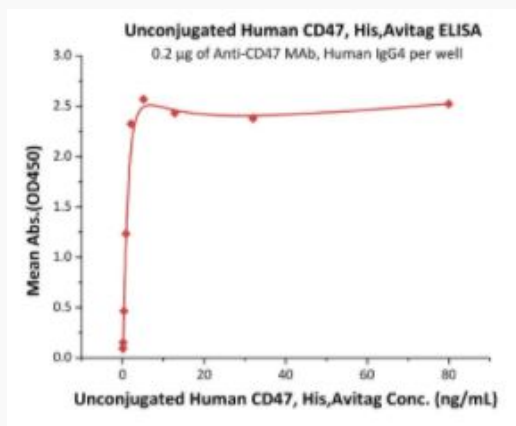
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Bioactivity-ELISA of CD47-333H



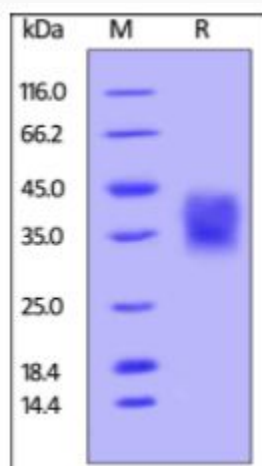
Immobilized Human SIRP alpha, Fc Tag at 2 µg/mL (100 µL/well) can bind Unconjugated Human CD47, His,Avitag with a linear range of 2-13 ng/mL (QC tested).

Bioactivity-ELISA of CD47-333H



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

**SDS-PAGE of CD47-
333H**



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