

Product datasheet for **TP723931**

CD47 Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Human CD47 Protein, mFc-His Tag
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	CD47[Gln19-Gln141]+CD47[Val198-Ala207]+CD47[Ser257-Gly268]+mFc[Pro99-Lys330]+6×His tag
Tag:	C-Mouse Fc and 6×His
Predicted MW:	60 kDa
Purity:	> 95%
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5% - 8% trehalose is added as protectants before lyophilization
Reconstitution Method:	Reconstitute with deionized water
Preparation:	Affinity purification
Applications:	ELISA
Storage:	Store the lyophilized protein at -20°C. After reconstitution, store the protein at -80°C for 12 months. Avoid repeated freezing and thawing.
Stability:	12 months from date of despatch
Locus ID:	961
UniProt ID:	Q08722



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Summary:

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.

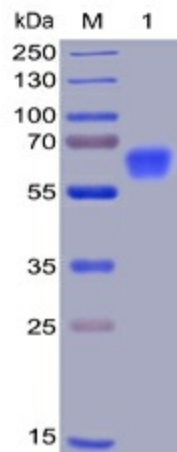
Product images:


Figure 1. Human CD47, mFc-His Tag on SDS-PAGE under reducing condition.

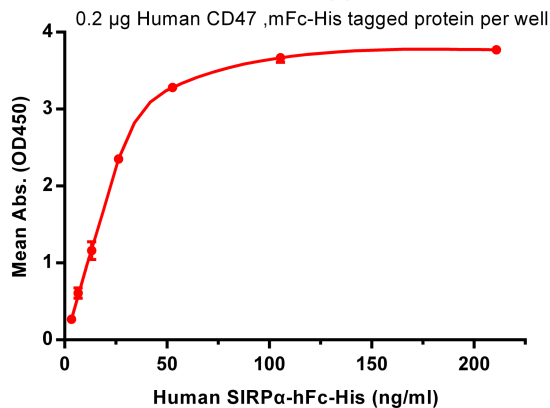
Human CD47, mFc-His tagged protein ELISA


Figure 2. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human CD47, mFc-His tagged protein (TP723931) can bind its native ligand Human SIRPα, hFc-His tagged protein ([TP723932]) in a linear range of 3.3-26.37 ng/ml.

Human CD47, mFc-His Tagged protein ELISA

0.2 µg of Human CD47, mFc-His tagged protein per well

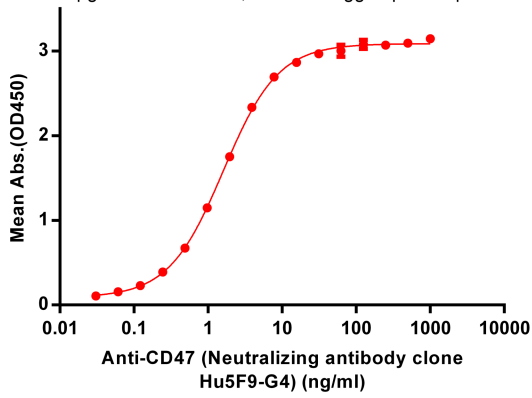


Figure 3. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human CD47, mFc-His tagged protein (TP723931) can bind Anti-CD47 (Neutralizing antibody clone Hu5F9-G4) ([TA355193]) in a linear range of 0.061-1.606 ng/ml.