

## PRODUCT INFORMATION

<b>Target</b>	CD47
<b>Synonyms</b>	CD47;MER6;IAP;OA3
<b>Description</b>	Recombinant human CD47 protein with C-terminal mouse Fc and 6×His tag
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	Q08722
<b>Expression Host</b>	HEK293
<b>Tag</b>	C-Mouse Fc and 6×His Tag
<b>Molecular Characterization</b>	CD47(Gln19-Glu141) CD47(Val198-Ala207) CD47(Ser257-Gly268) mFc(Pro99-Lys330) 6×His tag
<b>Molecular Weight</b>	The protein has a predicted molecular mass of 60 kDa after removal of the signal peptide.
<b>Purity</b>	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
<b>Formulation &amp; Reconstitution</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
<b>Storage&amp;Shipping</b>	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
<b>Sterility</b>	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 µm) prior to use.
<b>Background</b>	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.
<b>Usage</b>	Research use only
<b>Conjugate</b>	Unconjugated



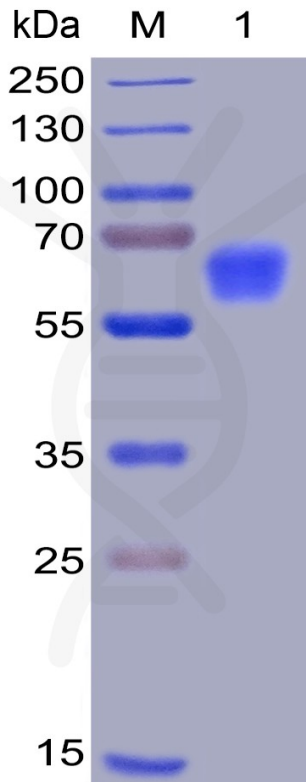


Figure 1. Human CD47, mFc-His Tag on SDS-PAGE under reducing condition.

## Human CD47, mFc-His tagged protein ELISA

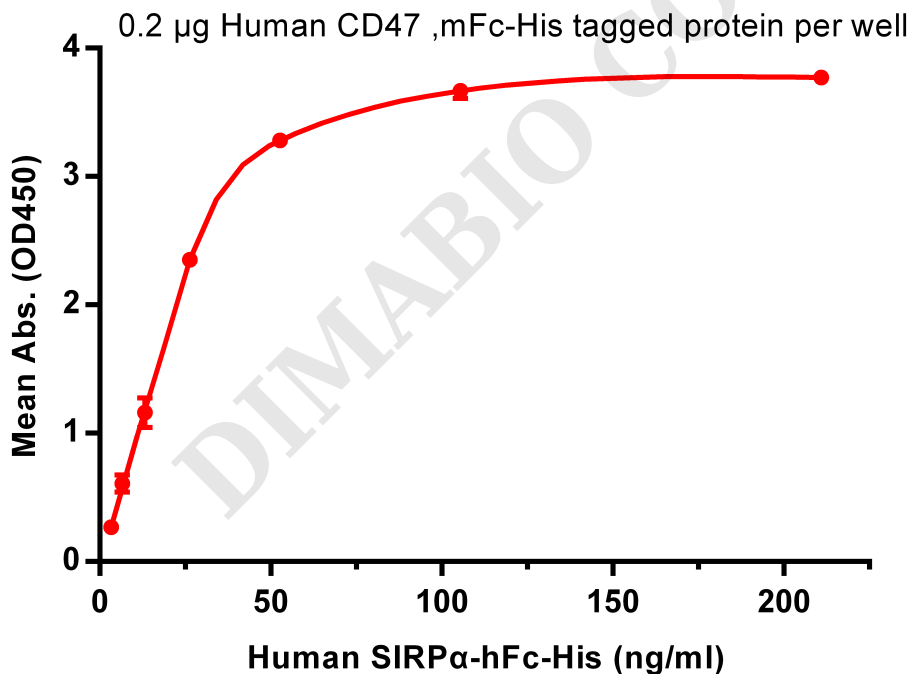


Figure 2. ELISA plate pre-coated by 2  $\mu\text{g}/\text{ml}$  (100  $\mu\text{l}/\text{well}$ ) Human CD47, mFc-His tagged protein (PME100008) can bind its native ligand Human SIRP $\alpha$ , hFc-His tagged protein PME100009 in a linear range of 3.3-26.37 ng/ml.



### Human CD47, mFc-His Tagged protein ELISA

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

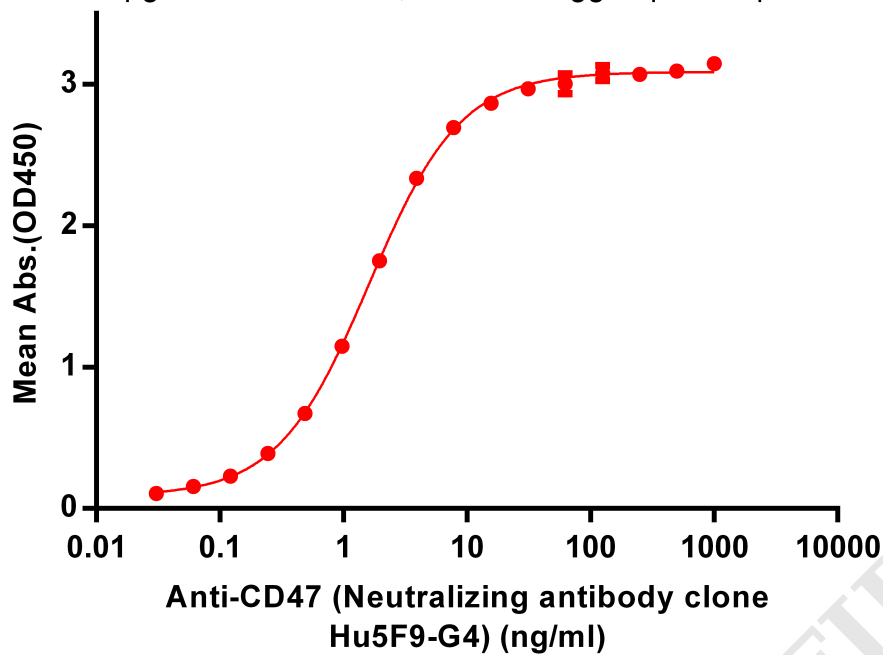


Figure 3. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human CD47, mFc-His tagged protein (PME100008) can bind Anti-CD47 (Neutralizing antibody clone Hu5F9-G4) BME100001 in a linear range of 0.061-1.606 ng/ml.

### Human CD47, mFc-His tagged protein ELISA

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

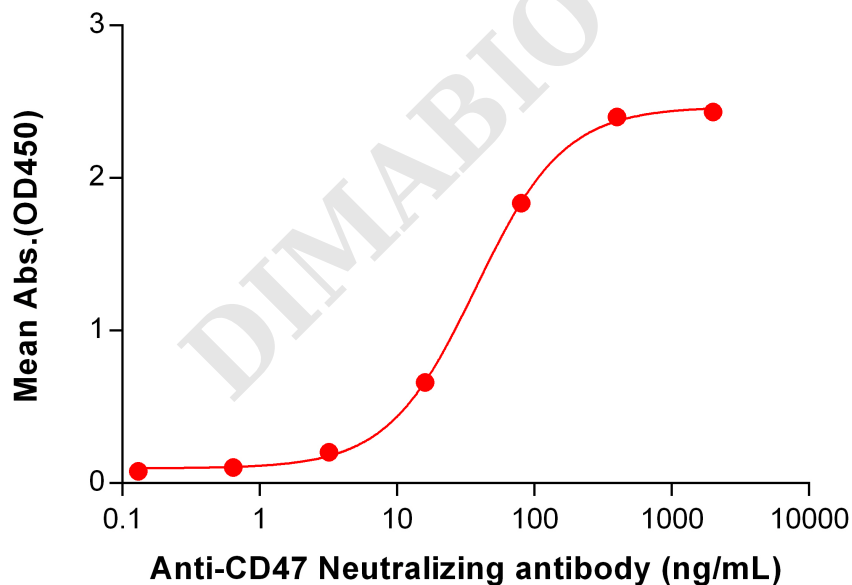


Figure 4. ELISA plate pre-coated by 1 µg/ml (100 µl/well) Human CD47, mFc-His tagged protein (PME100008) can bind Anti-CD47 Neutralizing antibody BME100050 in a linear range of 3.2-80.0 ng/ml.



### Human CD47, mFc-His Tagged Protein ELISA

0.2  $\mu$ g of Human CD47, mFc-His tagged protein per well

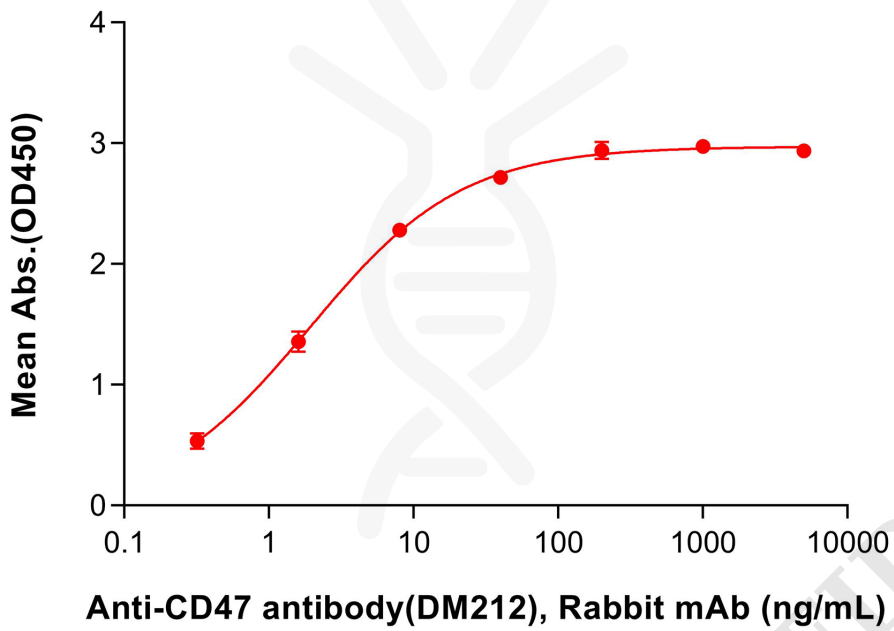


Figure 5. ELISA plate pre-coated by 2  $\mu$ g/mL (100  $\mu$ L/well) Human CD47 Protein, mFc-His Tag (PME100008) can bind Anti-CD47 antibody(DM212), Rabbit mAb (DME100212) in a linear range of 1.6-8.0 ng/mL.

