

PRODUCT INFORMATION

Target	CD47
Synonyms	CD47;MER6;IAP;OA3
Description	Recombinant human CD47 protein with C-terminal mouse Fc and 6×His tag
Delivery	In Stock
Uniprot ID	Q08722
Expression Host	HEK293
Tag	C-Mouse Fc and 6×His Tag
Molecular Characterization	CD47(Gln19-Glu141) CD47(Val198-Ala207) CD47(Ser257-Gly268) mFc(Pro99-Lys330) 6×His tag
Molecular Weight	The protein has a predicted molecular mass of 60 kDa after removal of the signal peptide.
Purity	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	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.
Storage & Shipping	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.
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.
Usage	Research use only
Conjugate	Unconjugated



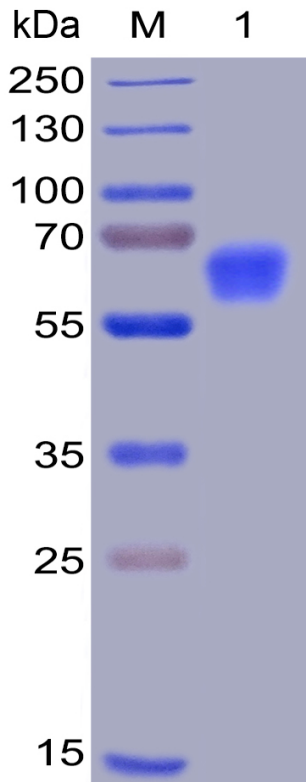


Figure 1. Human CD47, mFc-His Tag on SDS-PAGE under reducing condition.

Human CD47, mFc-His tagged protein ELISA

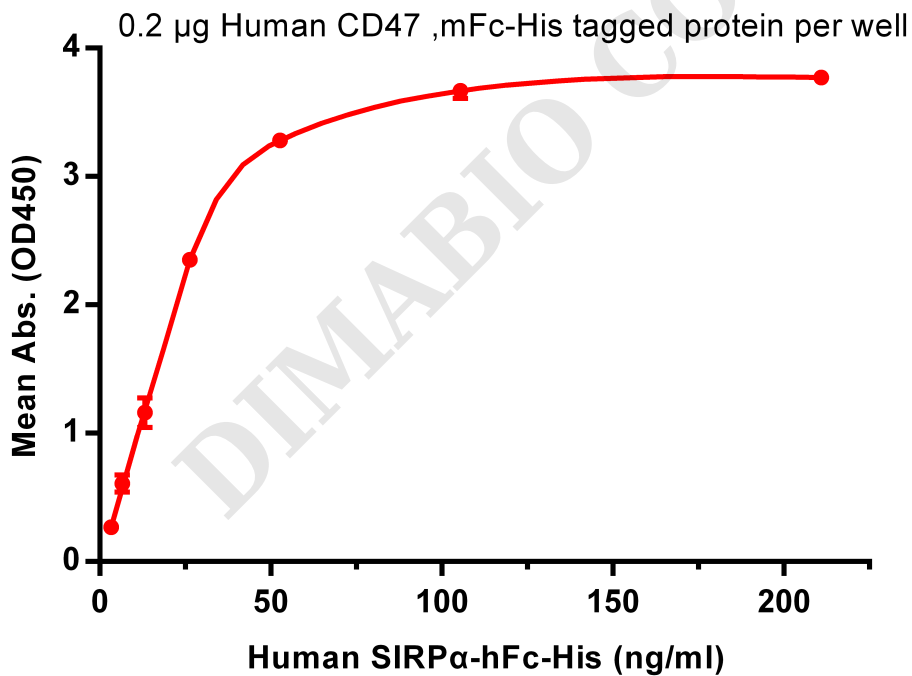


Figure 2. ELISA plate pre-coated by 2 $\mu\text{g}/\text{ml}$ (100 $\mu\text{l}/\text{well}$) Human CD47, mFc-His tagged protein (PME100008) can bind its native ligand Human SIRP α , hFc-His tagged protein PME100009 in a linear range of 3.3-26.37 ng/ml.



Human CD47, mFc-His Tagged protein ELISA

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

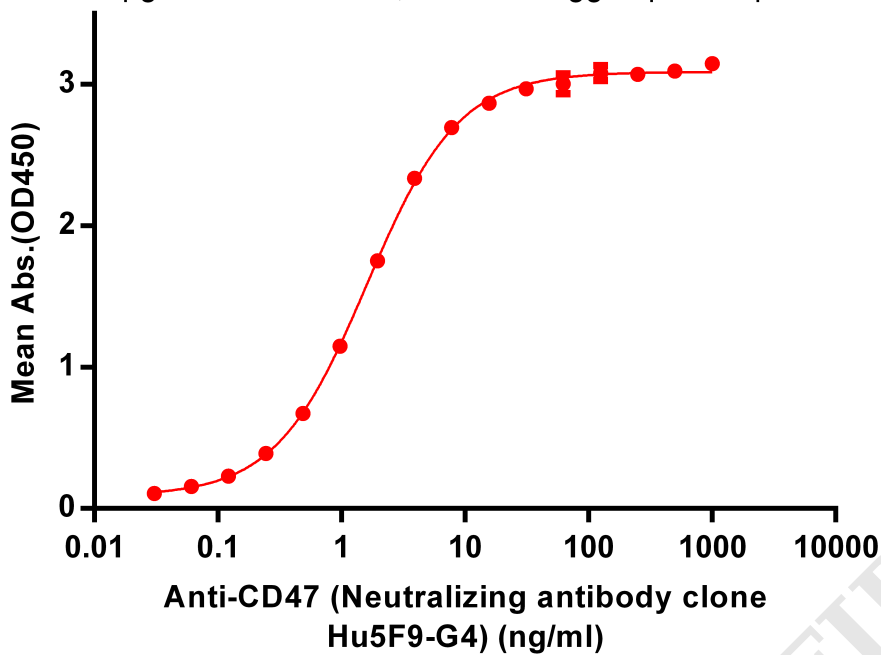


Figure 3. ELISA plate pre-coated by 2 $\mu\text{g}/\text{ml}$ (100 $\mu\text{l}/\text{well}$) Human CD47, mFc-His tagged protein (PME100008) can bind Anti-CD47 (Neutralizing antibody clone Hu5F9-G4) BME100001 in a linear range of 0.061-1.606 ng/ml.

Human CD47, mFc-His tagged protein ELISA

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

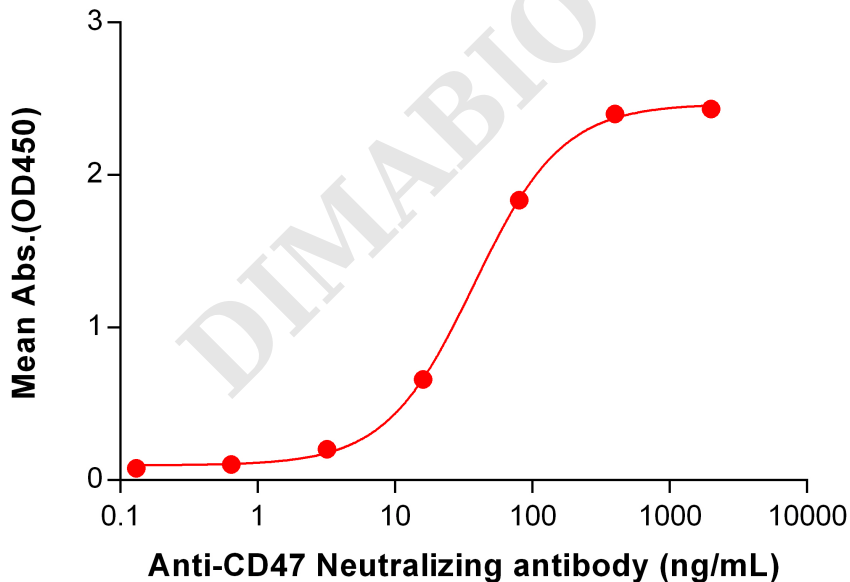


Figure 4. ELISA plate pre-coated by 1 $\mu\text{g}/\text{ml}$ (100 $\mu\text{l}/\text{well}$) Human CD47, mFc-His tagged protein (PME100008) can bind Anti-CD47 Neutralizing antibody BME100050 in a linear range of 3.2-80.0 ng/ml.

