

**PRODUCT INFORMATION**

<b>Clone ID</b>	DM212
<b>Target</b>	CD47
<b>Synonyms</b>	CD47; MER6; IAP; OA3
<b>Host Species</b>	Rabbit
<b>Description</b>	Anti-CD47 antibody(DM212); Rabbit mAb
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	Q08722
<b>IgG type</b>	Rabbit IgG
<b>Clonality</b>	Monoclonal
<b>Reactivity</b>	Human
<b>Applications</b>	ELISA; Flow Cyt
<b>Recommended Dilutions</b>	ELISA 1:5000-10000; Flow Cyt 1:100
<b>Purification</b>	Purified from cell culture supernatant by affinity chromatography
<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>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



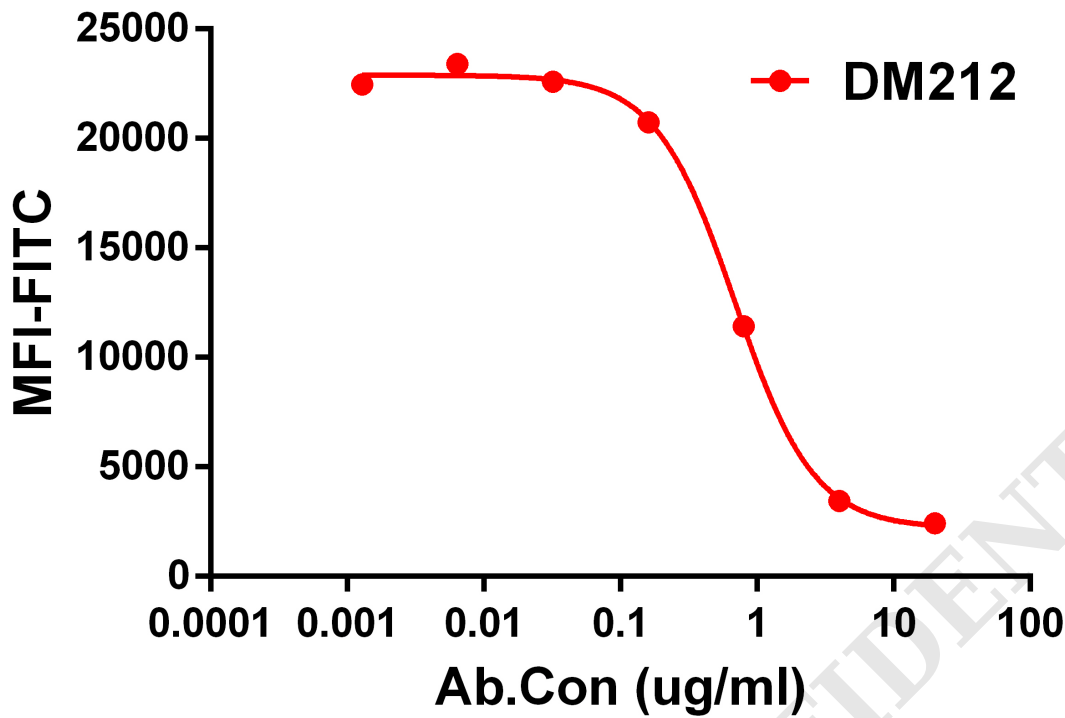


Figure 1. Competition assay demonstrating DM212 blockade of SIRP $\alpha$  binding to Jurkat cell line.

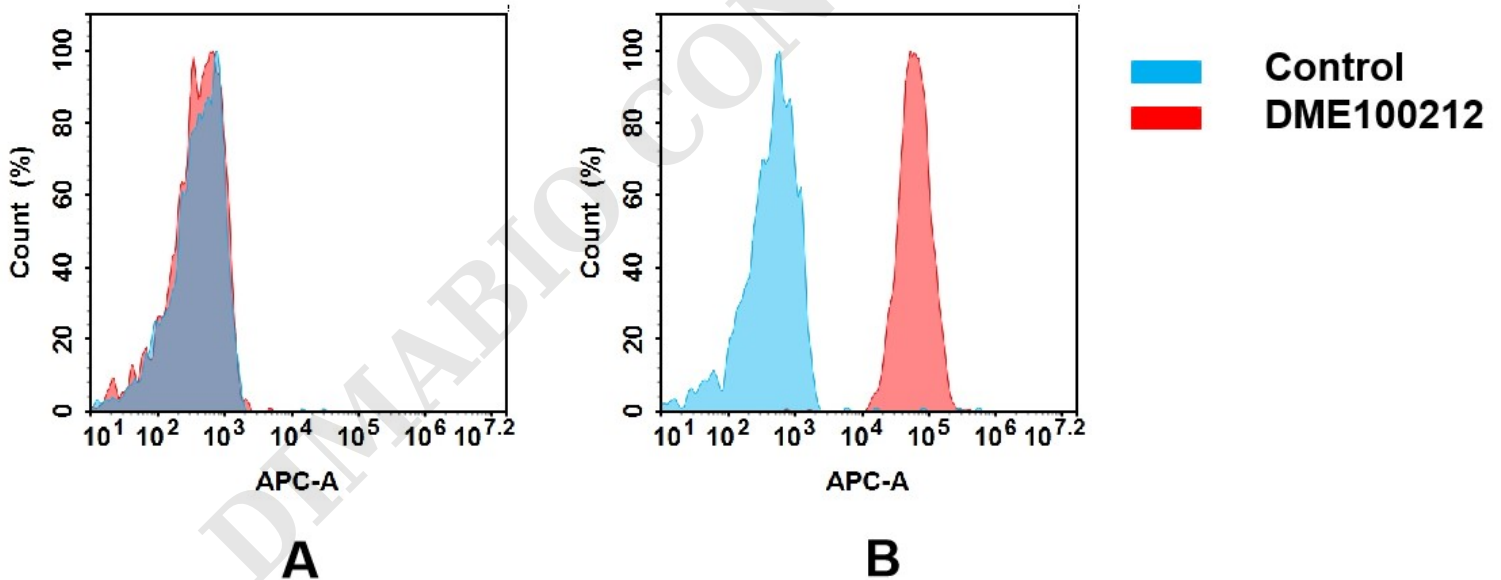


Figure 2. Flow cytometry analysis of antigen binding of rabbit anti-human CD47 mAb(DME100212).

(A) DME100212 does not bind to CHO-S cells that do not express CD47.

(B) A clear peak shift of DME100212 was seen compared to the control when incubated with CD47-expressing SNU-5 cells, indicating strong binding of DME100212 to CD47. Antibodies were incubated at 5  $\mu$ g/ml.



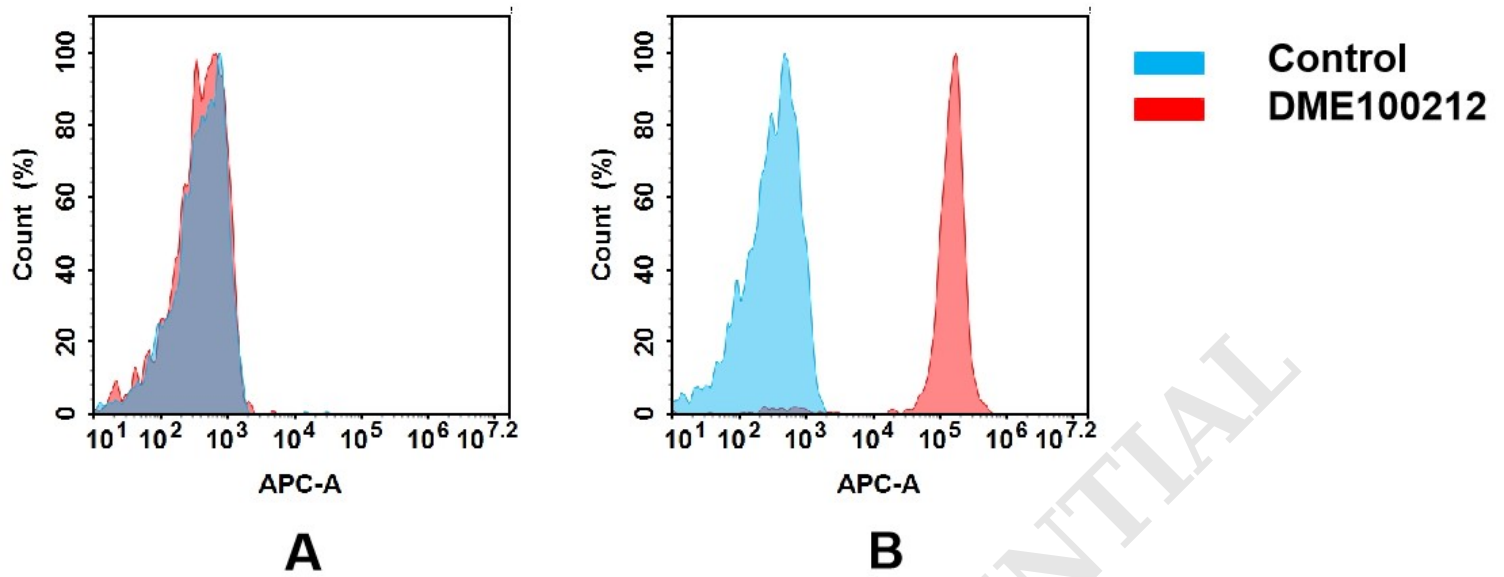


Figure 3. Flow cytometry analysis of antigen binding of rabbit anti-human CD47 mAb(DME100212).

(A) DME100212 does not bind to CHO-S cells that do not express CD47.

(B) A clear peak shift of DME100212 was seen compared to the control when incubated with CD47-expressing 8226 cells, indicating strong binding of DME100212 to CD47. Antibodies were incubated at 5  $\mu$ g/ml.

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