PRODUCT INFORMATION

Clone ID	DM212
Target	CD47
Synonyms	CD47; MER6; IAP; OA3
Host Species	Rabbit
Description	Anti-CD47 antibody(DM212); Rabbit mAb
Delivery	In Stock
Uniprot ID	Q08722
IgG type	Rabbit IgG
Clonality	Monoclonal
Reactivity	Human
Applications	ELISA; Flow Cyt
Recommended Dilutions	ELISA 1:5000-10000; Flow Cyt 1:100
Purification	Purified from cell culture supernatant by affinity chromatography
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
DIMA Disclaimer	All DIMA recombinant antibodies are genuinely generated by DIMA Biotech. They are all under patent application. Any protein sequencing or reverse engineering attempt is prohibited. We are actively scrutinizing all patent application to ensure no IP infringement.

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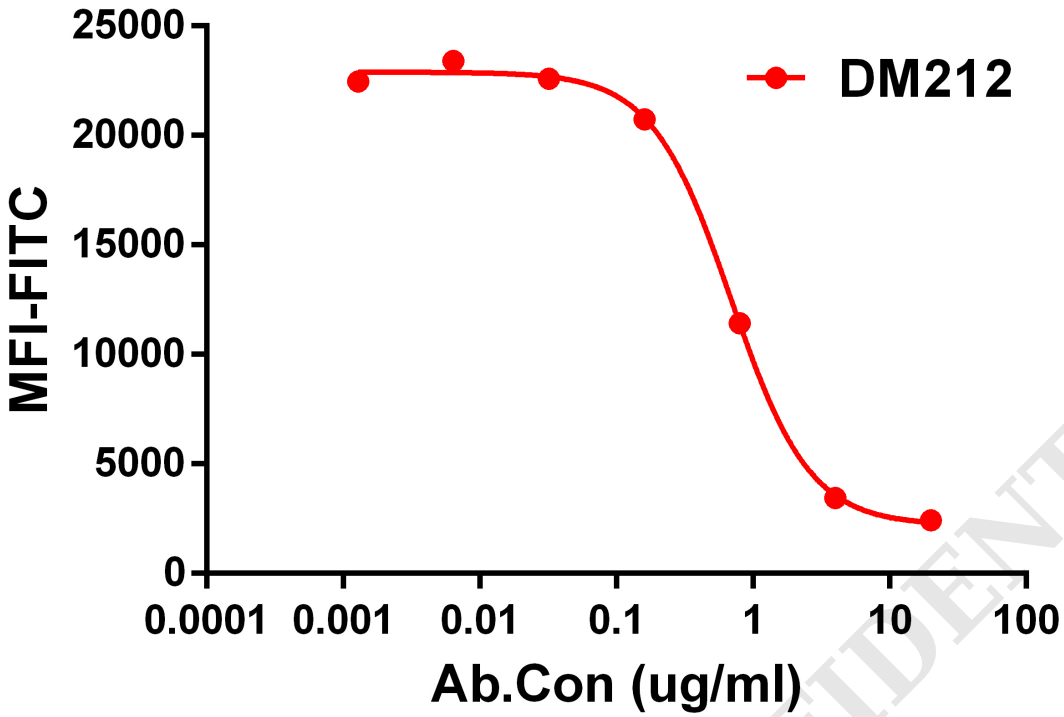

Figure 1. Competition assay demonstrating DM212 blockade of SIRPα binding to Jurkat cell line.

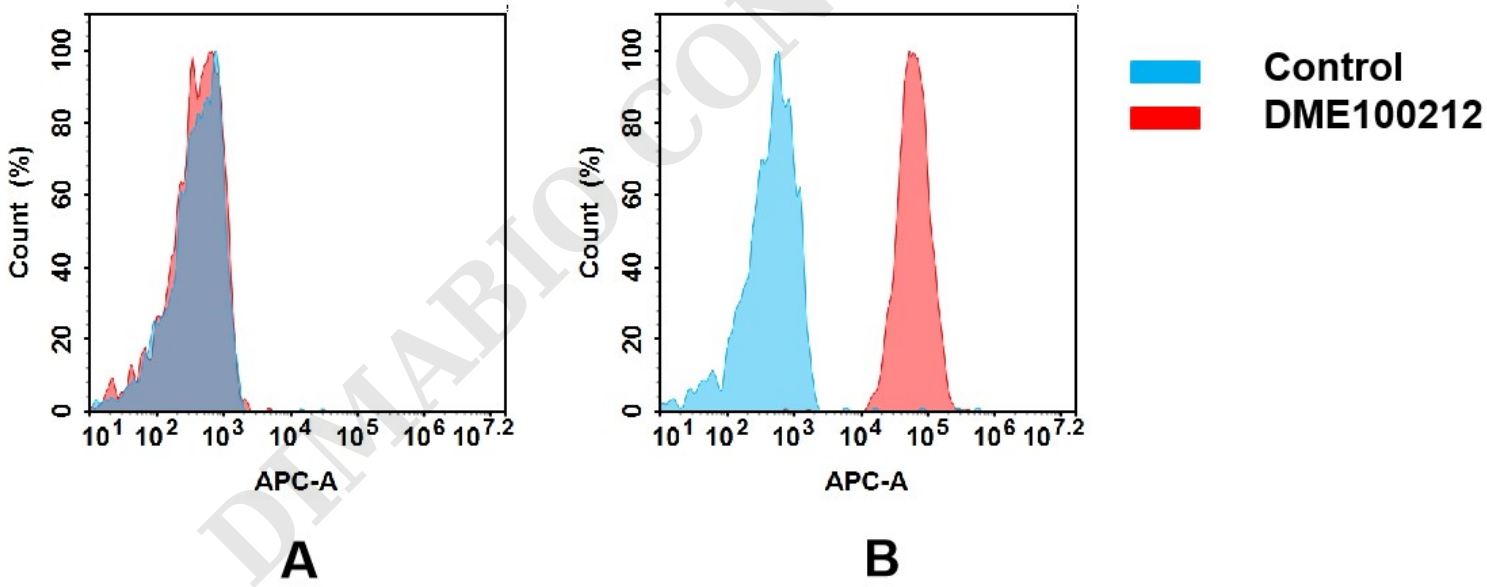

Figure 2. Flow cytometry analysis of antigen binding of rabbit anti-human CD47 mAb(DME100212).
(A) DME100212 does not bind to CHO-S cells that do not express CD47.
(B) A clear peak shift of DME100212 was seen compared to the control when incubated with CD47-expressing SNU-5 cells, indicating strong binding of DME100212 to CD47. Antibodies were incubated at 5 μg/ml.

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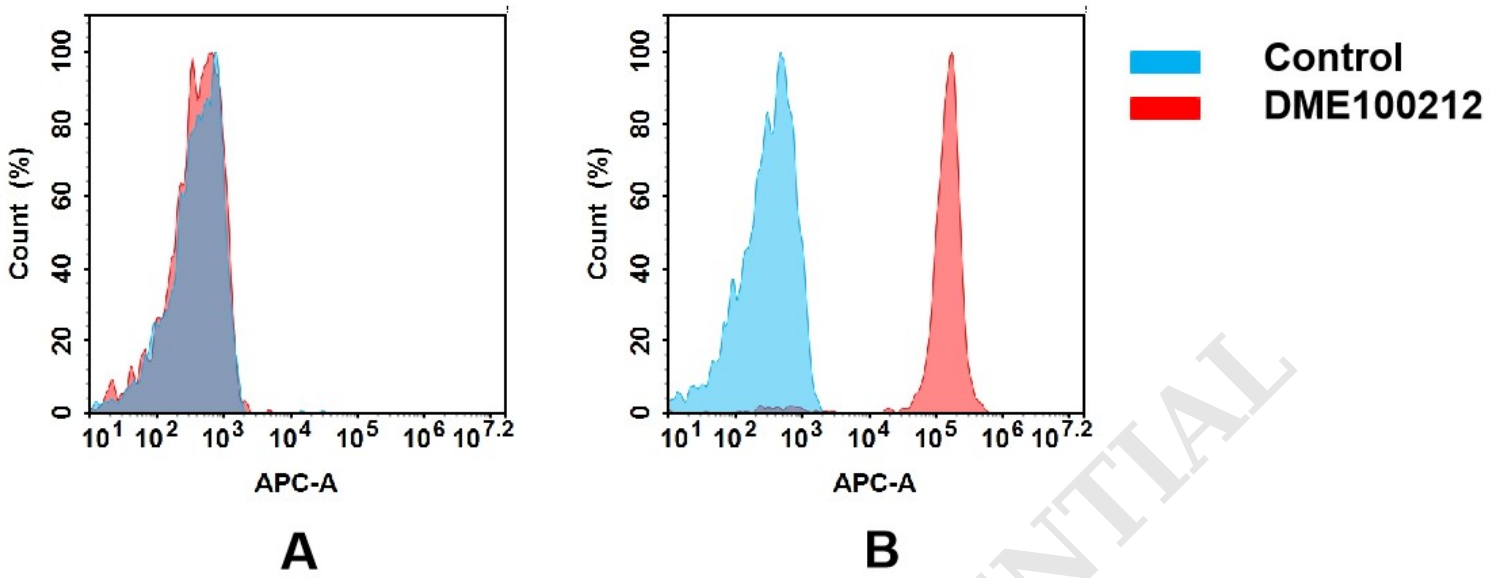

Figure 3. Flow cytometry analysis of antigen binding of rabbit anti-human CD47 mAb(DME100212).
(A) DME100212 does not bind to CHO-S cells that do not express CD47.
(B) A clear peak shift of DME100212 was seen compared to the control when incubated with CD47-expressing 8226 cells, indicating strong binding of DME100212 to CD47. Antibodies were incubated at 5 μg/ml.

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