

PRODUCT INFORMATION

Clone ID DM212 **CD47 Target**

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

Storage & Shipping

ELISA 1:5000-10000; Flow Cyt 1:100 **Dilutions**

Purified from cell culture supernatant by affinity **Purification**

chromatography

Lyophilized from sterile PBS, pH 7.4. Normally 5 % Formulation & - 8% trehalose is added as protectants before Reconstitution

lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.

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.

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

Background 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

Unconjugated

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

> Email: info@dimabio.com Website: www.dimabio.com

actively scrutinizing all patent application to

ensure no IP infringement.

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Conjugate

DIMA Disclaimer





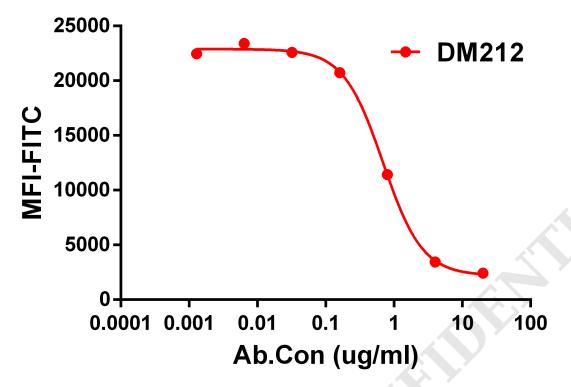


Figure 1. Competition assay demonstrating DM212 blockade of SIRPα binding to Jurkat cell line.

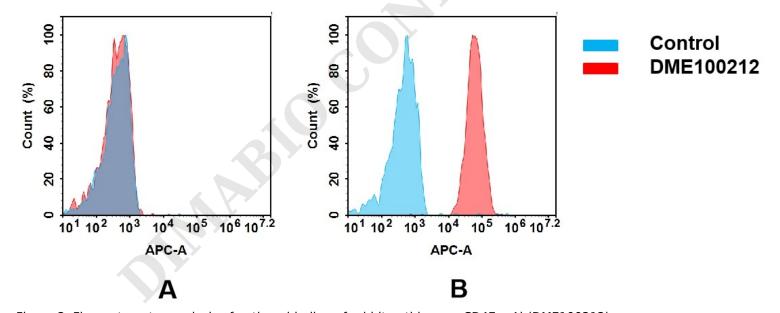
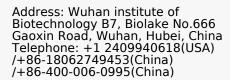


Figure 2. Flow cytometry analysis of antigen binding of rabbit anti-human CD47 mAb(DME100212).

(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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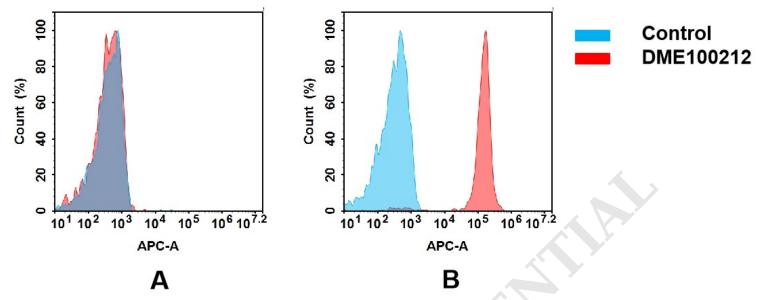


Figure 3. Flow cytometry analysis of antigen binding of rabbit anti-human CD47 mAb(DME100212). (A) DME100212 does not bind to CHO-S cells that do not express CD47. (B) A clear peak shift of DME100212 was seen compared to the control when incubated with CD47-expressing 8226 cells, indicating strong binding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



