

**PRODUCT INFORMATION**

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| <b>Clone ID</b>                         | DM44   |
| <b>Target</b>                           | CD48   |
| <b>Synonyms</b>                         | CD48; BCM1; SLAMF2; BLAST; BLAST1; MEM-102; TCT.1; BCM-1; SLAMF-2; BLAST-1   |
| <b>Host Species</b>                     | Rabbit   |
| <b>Description</b>                      | Anti-CD48 antibody(DM44); Rabbit mAb   |
| <b>Delivery</b>                         | In Stock   |
| <b>Uniprot ID</b>                       | P09326   |
| <b>IgG type</b>                         | Rabbit IgG   |
| <b>Clonality</b>                        | Monoclonal   |
| <b>Reactivity</b>                       | Human  |
| <b>Applications</b>                     | ELISA; Flow Cyt; WB  |
| <b>Recommended Dilutions</b>            | ELISA 1:5000-10000; Flow Cyt 1:100; WB 1:1000  |
| <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>                       | This gene encodes a member of the CD2 subfamily of immunoglobulin-like receptors which includes SLAM (signaling lymphocyte activation molecules) proteins. The encoded protein is found on the surface of lymphocytes and other immune cells; dendritic cells and endothelial cells; and participates in activation and differentiation pathways in these cells. The encoded protein does not have a transmembrane domain; however; but is held at the cell surface by a GPI anchor via a C-terminal domain which maybe cleaved to yield a soluble form of the receptor. Multiple transcript variants encoding different isoforms have been found for this gene. |
| <b>Usage</b>                            | Research use only  |
| <b>Conjugate</b>                        | Unconjugated   |
| <b>DIMA Disclaimer</b>                  | 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.   |



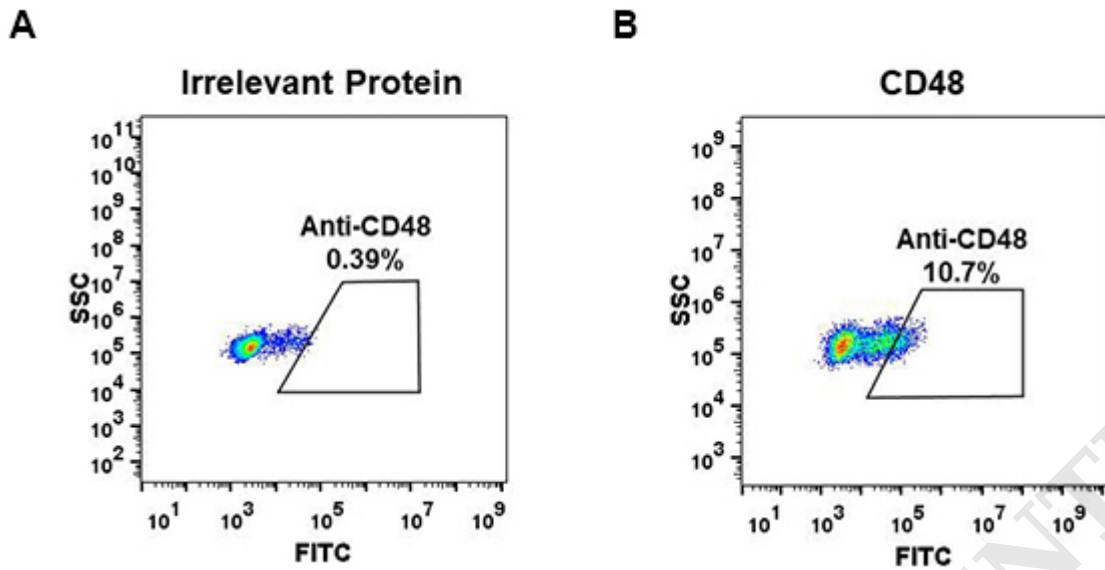


Figure 1. Expi 293 cell line transfected with irrelevant protein (left) and human CD48 (right) were surface stained with Rabbit anti-CD48 monoclonal antibody  $1\mu\text{g/ml}$  ( clone: DM44) followed by Alexa 488-conjugated anti-rabbit IgG secondary antibody.

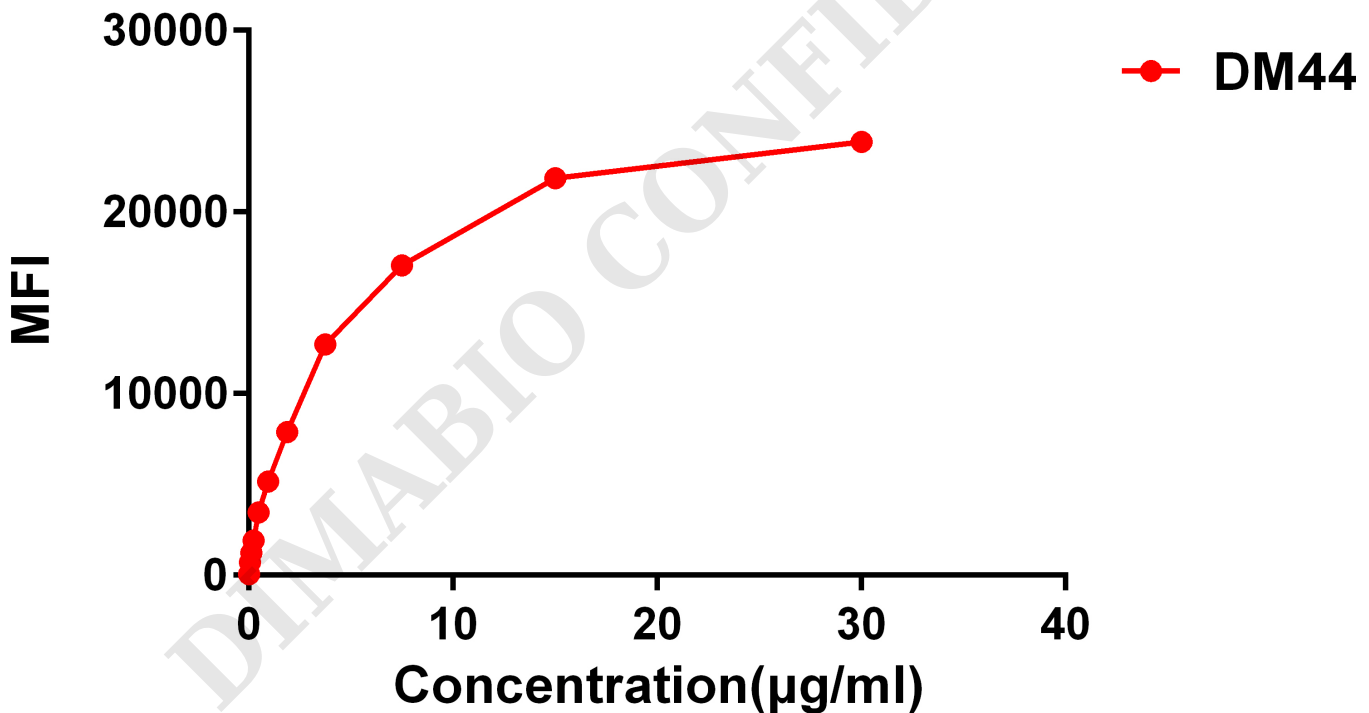


Figure 2. Flow cytometry data of serially titrated Rabbit anti-CD48 monoclonal antibody ( clone: DM44) on H929 cells. The Y-axis represents the mean fluorescence intensity (MFI) while the X-axis represents the concentration of IgG used.



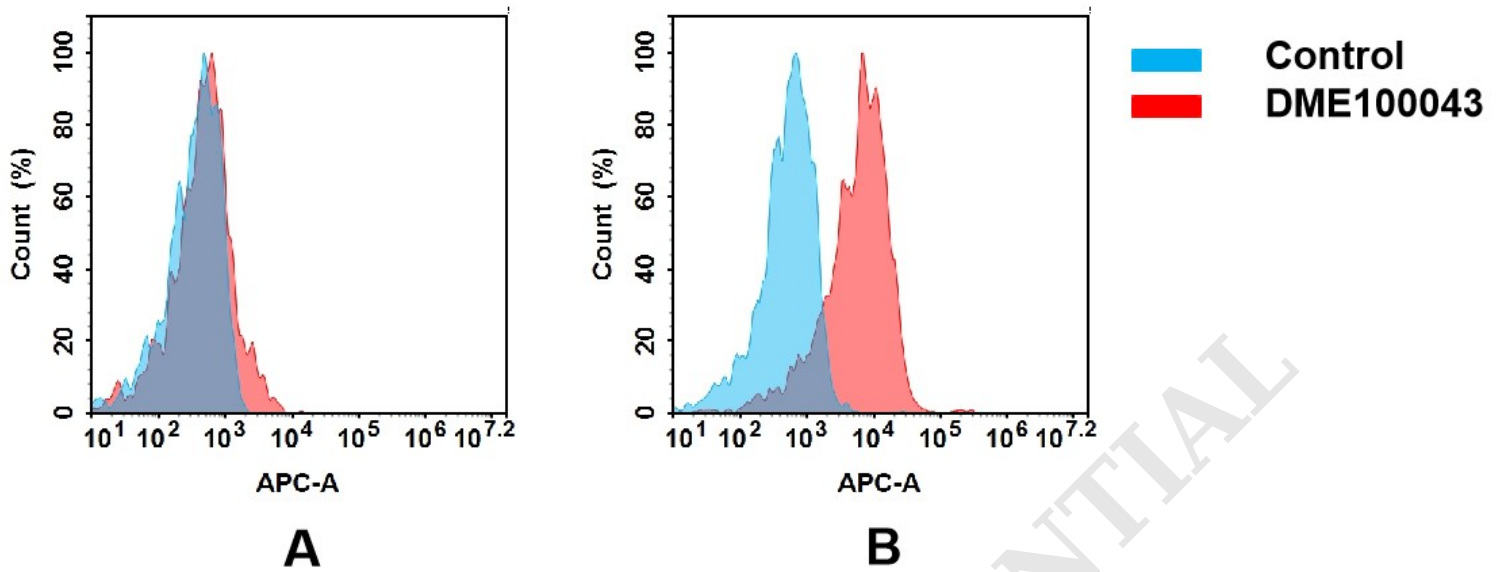
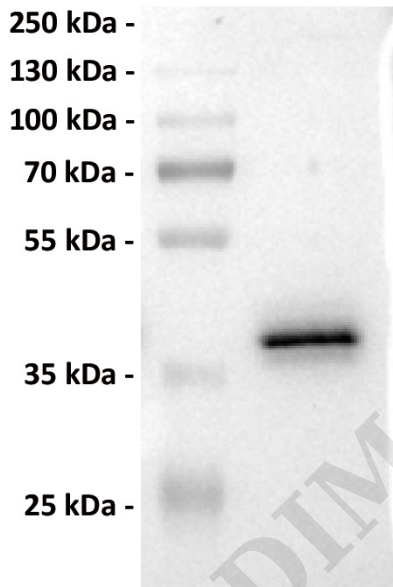


Figure 4. Flow cytometry analysis of antigen binding of rabbit anti-human CD48 mAb(DME100043).

(A) DME100043 does not bind to 293T cells that do not express CD48.

(B) A clear peak shift of DME100043 was seen compared to the control when incubated with CD48-expressing Raji cells, indicating strong binding of DME100043 to CD48. Antibodies were incubated at 2 µg/mL.

### RAJI



### CD48-DM44

Figure 5. Anti-CD48 antibody (SKU# DME100043) at 1/1000 dilution

Lane : Raji (human Burkitt's lymphoma B lymphocyte), whole cell lysate

Secondary : Goat Anti-Rabbit IgG H&L (HRP) at 1/5000 dilution

Predicted band size: 28 kDa

Observed band size: 40 kDa

