

PRODUCT INFORMATION

Clone ID **DM45 Target** CD138

Synonyms SDC1; Syndecan-1; CD138; SYND1; SDC

Host Species Rabbit

Description Anti-CD138 antibody(DM45); Rabbit mAb

Delivery In Stock **Uniprot ID** P18827 IgG type Rabbit IgG Clonality Monoclonal Reactivity Human

Applications ELISA IHC FC

Recommended

Background

DIMA Disclaimer

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

Storage & Shipping at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient

temperature.

Syndecan-1 (SYND1 or SDC1) is also known as CD antigen CD138; is a transmembrane (type I) heparan sulfate proteoglycan and is a member of the syndecan proteoglycan family. The syndecans

mediate cell binding; cell signaling; and

cytoskeletal organization and syndecan receptors are required for internalization of the HIV-1 tat protein. The syndecan-1 : SDC1 protein functions

as an integral membrane protein and participates in cell proliferation; cell migration and cell-matrix interactions via its receptor for extracellular matrix proteins. It is a useful marker for plasma cells; but only if the cells tested are already

known to be derived from blood.

Usage Research use only

Conjugate Unconjugated

All DIMA recombinant antibodies are genuinely generated by DIMA Biotech. They are all under patent application. Any protein sequencing or

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reverse engineering attempt is prohibited. We are actively scrutinizing all patent application to

ensure no IP infringement.







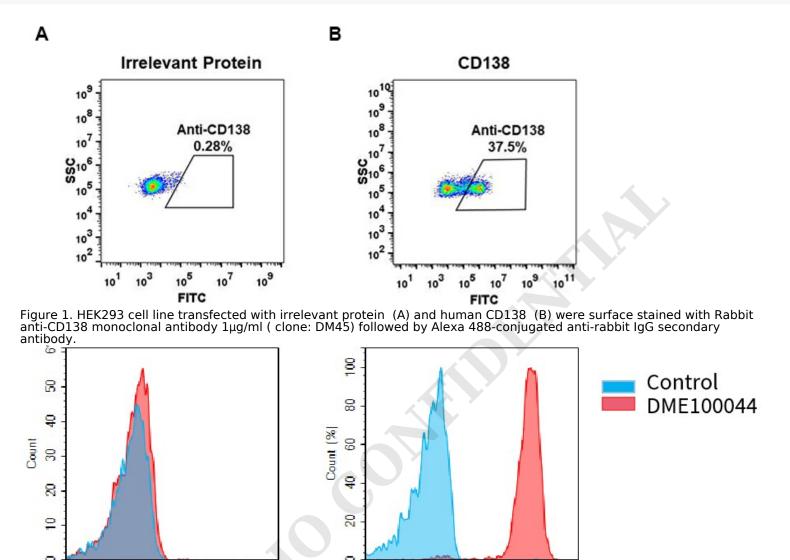


Figure 2. Flow cytometry analysis of antigen binding of rabbit anti-human CD138 mAb (DME100044). (A) DME100044 does not bind to Jurkat cells that do not express CD138. (B) A clear peak shift of DME100044 was seen compared to the control when incubated with CD138-expressing MM.1S cells, indicating strong binding of DME100044 to CD138. Antibodies were incubated at 5 μ g/mL.

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101

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APC-A

10⁵

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APC-A

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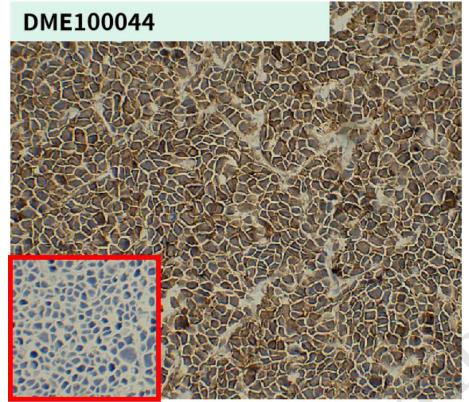


Figure 3. DME100044 at $5\mu g/ml$ staining CD138 in RPMI-8226 MM xenografts in NSG mice by IHC (SKU# DME100044, DM45);

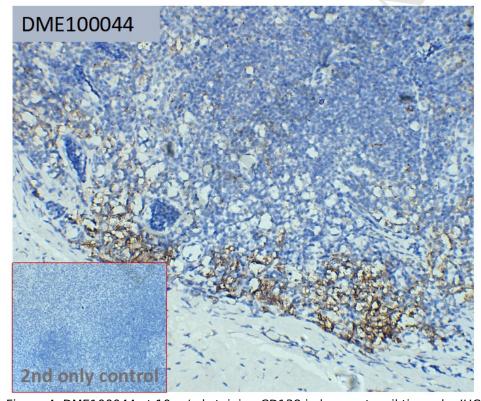


Figure 4. DME100044 at $10\mu g/ml$ staining CD138 in human tonsil tissue by IHC (SKU# DME100044).

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