

**PRODUCT INFORMATION**

<b>Clone ID</b>	DM45
<b>Target</b>	CD138
<b>Synonyms</b>	SDC1; Syndecan-1; CD138; SYND1; SDC
<b>Host Species</b>	Rabbit
<b>Description</b>	Anti-CD138 antibody(DM45); Rabbit mAb
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	P18827
<b>IgG type</b>	Rabbit IgG
<b>Clonality</b>	Monoclonal
<b>Reactivity</b>	Human
<b>Applications</b>	ELISA IHC FC
<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>	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.
<b>Usage</b>	Research use only
<b>Conjugate</b>	Unconjugated



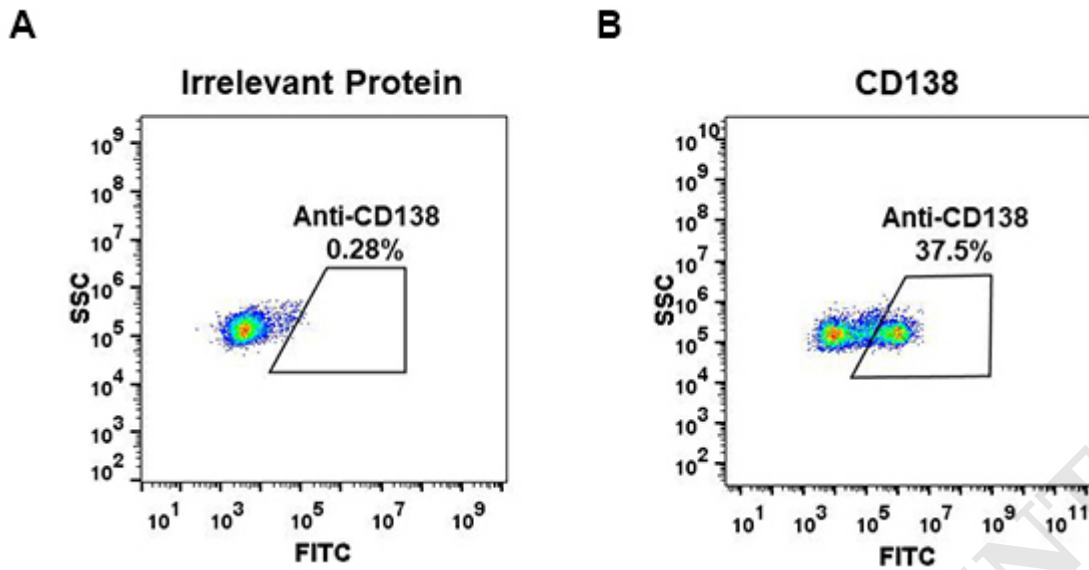


Figure 1. Expi 293 cell line transfected with irrelevant protein (A) and human CD138 (B) were surface stained with Rabbit anti-CD138 monoclonal antibody 1 $\mu$ g/ml (clone: DM45) followed by Alexa 488-conjugated anti-rabbit IgG secondary antibody.

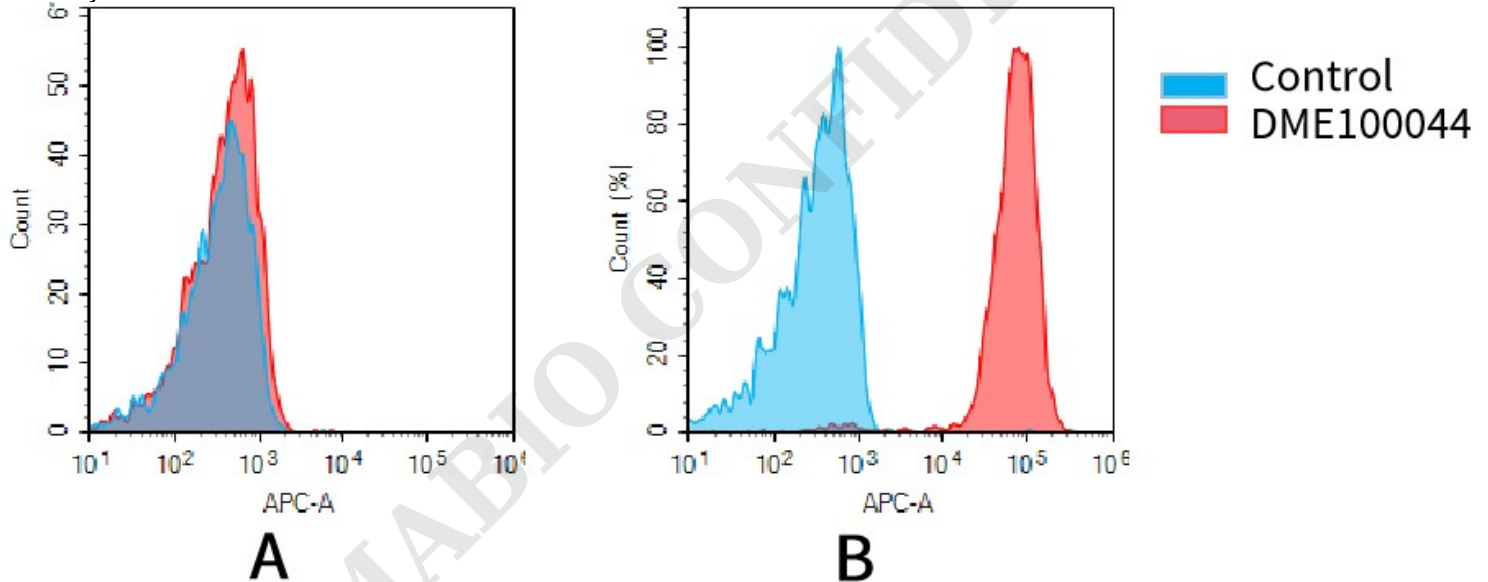


Figure 2. Flow cytometry analysis of antigen binding of rabbit anti-human CD138 mAb (DME100044). (A) DME100044 does not bind to Jurkat cells that do not express CD138. (B) A clear peak shift of DME100044 was seen compared to the control when incubated with CD138-expressing MM.1S cells, indicating strong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



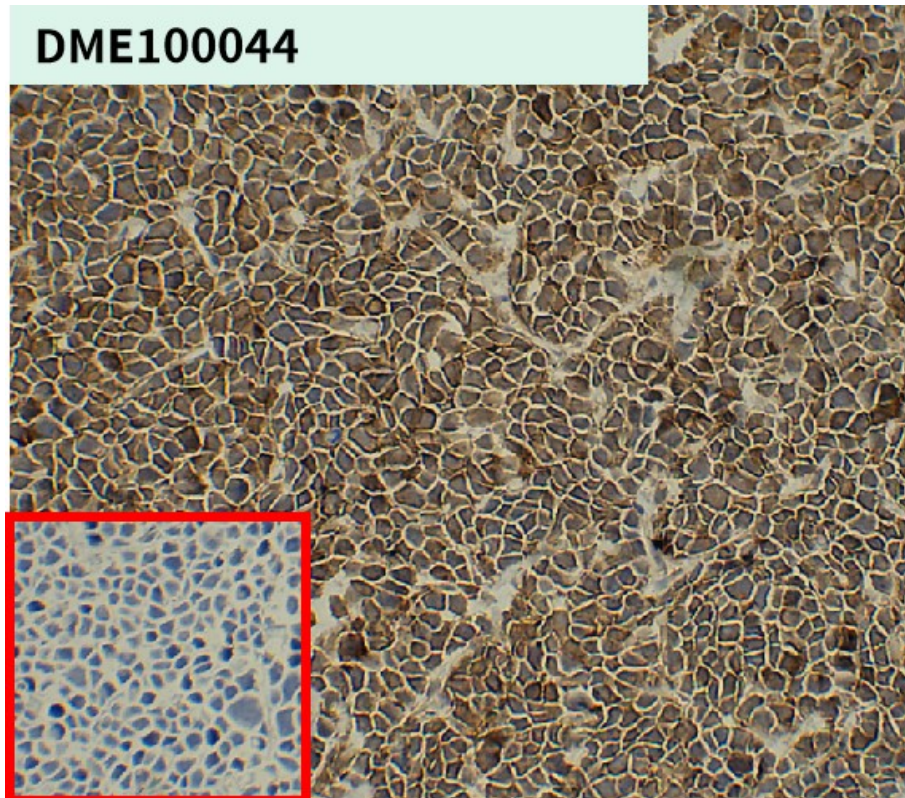


Figure 3. DME100044 at 5 $\mu$ g/ml staining CD138 in RPMI-8226 MM xenografts in NSG mice by IHC (SKU# DME100044, DM45);

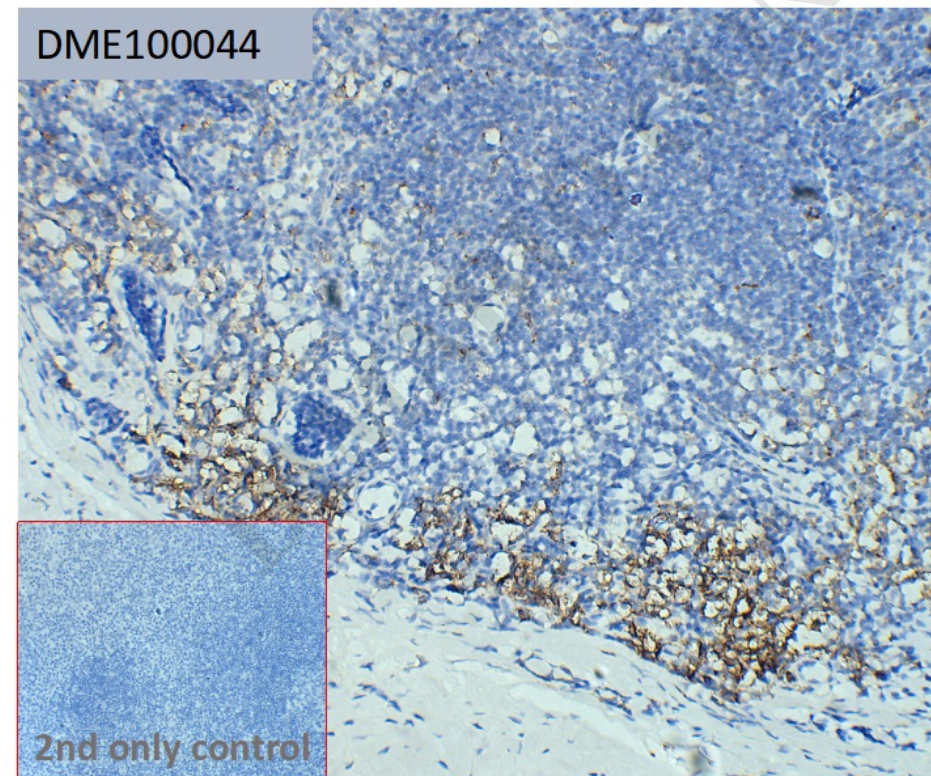


Figure 4. DME100044 at 10 $\mu$ g/ml staining CD138 in human tonsil tissue by IHC (SKU# DME100044).

