

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 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	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



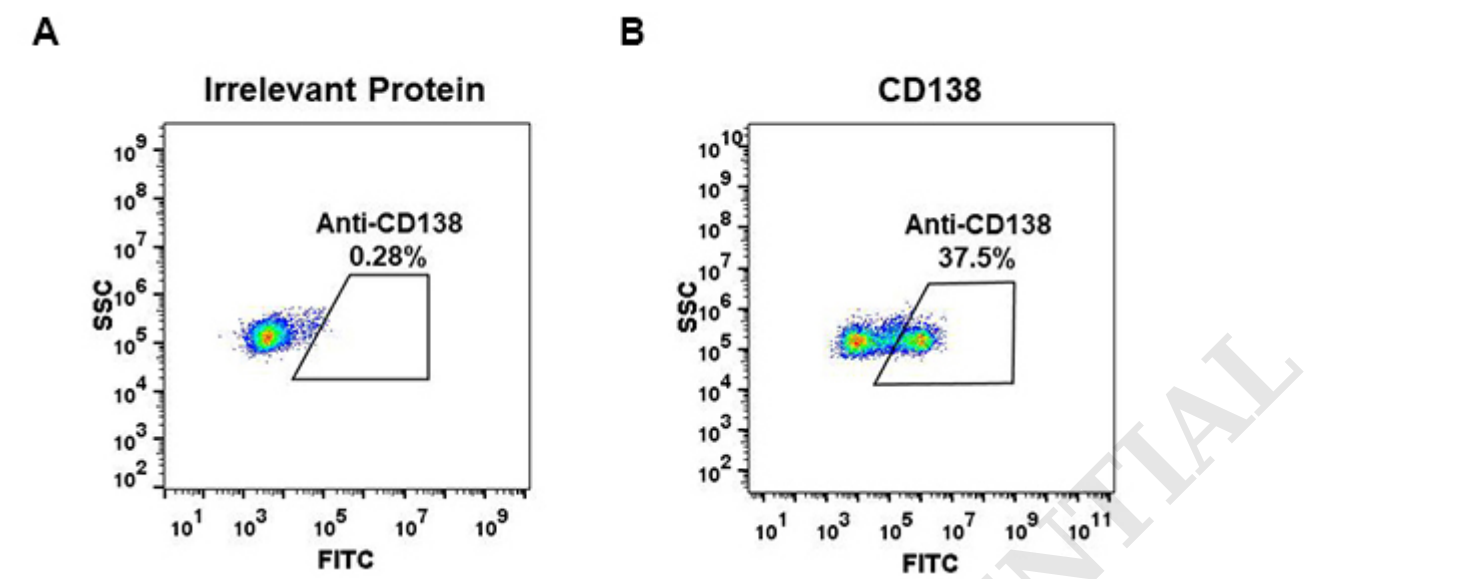


Figure 1. Expi 293 cell line transfected with irrelevant protein **(A)** and human CD138 **(B)** were surface stained with Rabbit anti-CD138 monoclonal antibody 1µg/ml (**clone: DM45**) followed by Alexa 488-conjugated anti-rabbit IgG secondary antibody.

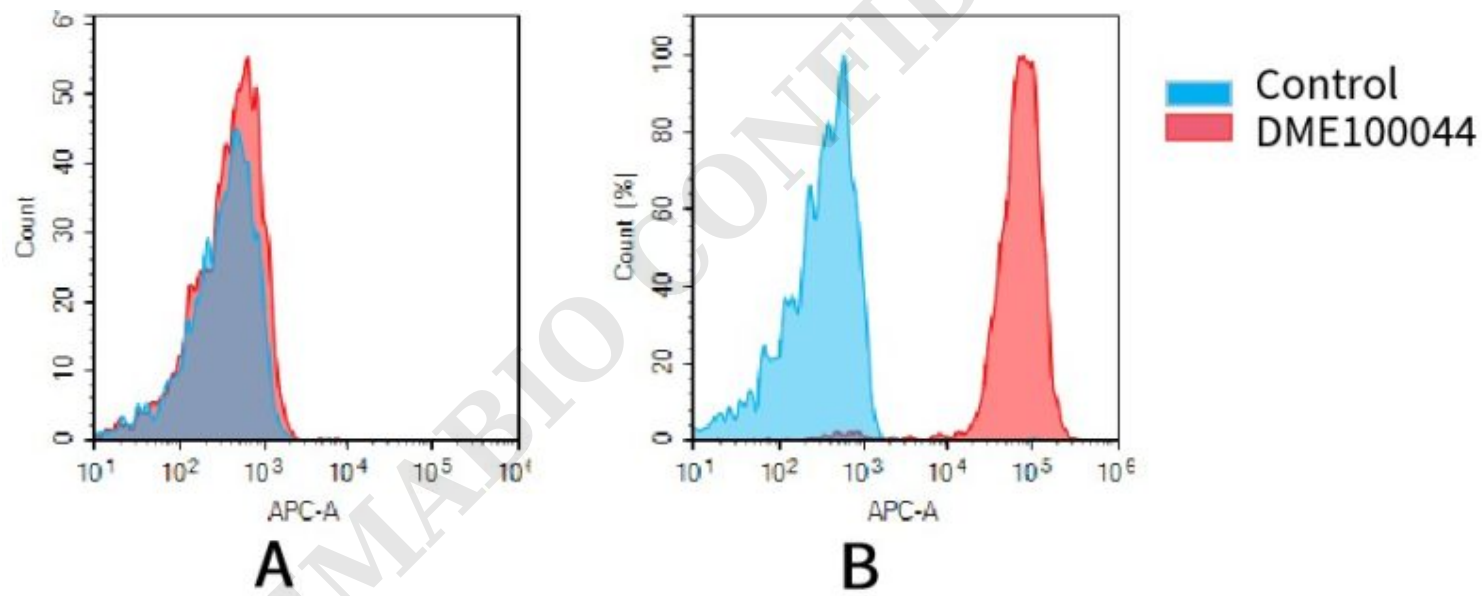


Figure 2.Flow cytometry analysis of antigen binding of rabbit anti-human CD138 mAb (DME100044). (A) DME100044 does not bind to Jurkat cells that do not express CD138. (B) A clear peak shift of DME100044 was seen compared to the control when incubated with CD138-expressing MM.1S cells, indicating strong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



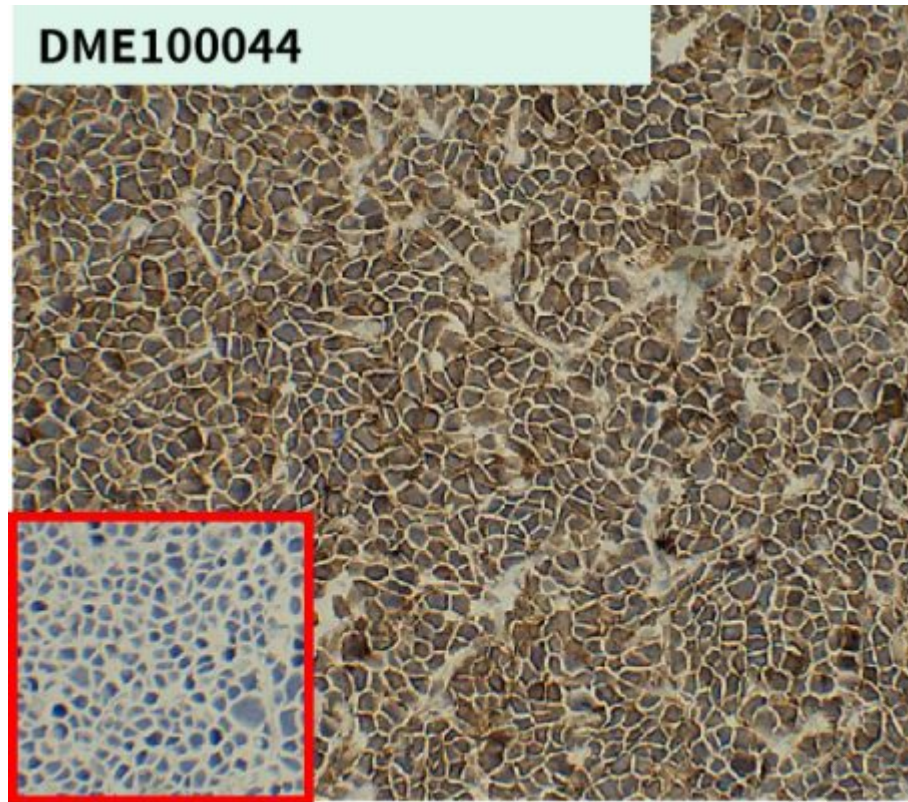


Figure 3. DME100044 at 5µg/ml staining CD138 in RPMI-8226 MM xenografts in NSG mice by IHC (SKU# DME100044, DM45);

