

## **PRODUCT INFORMATION**

Clone ID DM28 **CD38 Target** 

**Synonyms** T10; cADPr hydrolase 1

**Host Species** Rabbit

Description Anti-CD38 antibody(DM28); Rabbit mAb

**Delivery** In Stock **Uniprot ID** P28907 IgG type Rabbit IgG Clonality Monoclonal Reactivity Human

**Applications** ELISA; IHC; WB; Flow Cyt

Recommended

**Dilutions** 

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

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

chromatography

Formulation &

Background

Storage & Shipping

Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis Reconstitution 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.

CD antigen CD38 is also known as ADP-ribosyl cyclase 1; which belongs to the ADP-ribosyl cyclase family. CD38 is expressed at high levels in pancreas; liver; kidney; brain; testis; ovary;

placenta; malignant lymphoma and neuroblastoma. CD38 is a multifunctional ectoenzyme that catalyzes the synthesis and hydrolysis of cyclic ADP-ribose (cADPR) from NAD to ADP-ribose. These reaction products are essential for the regulation of intracellular Ca2.

The loss of CD38 function is associated with impaired immune responses; metabolic disturbances; and behavioral modifications. The CD38 protein is a marker of cell activation. It has been connected to HIV infection; leukemias; myelomas; solid tumors; type II diabetes mellitus and bone metabolism. CD38 has been used as a

prognostic marker in leukemia.

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

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

**DIMA Disclaimer** reverse engineering attempt is prohibited. We are

actively scrutinizing all patent application to ensure no IP infringement.

Address: Wuhan institute of Biotechnology B7, Biolake No.666 Gaoxin Road, Wuhan, Hubei, China Telephone: +1 2409940618(USA) /+86-18062749453(China)

/+86-400-006-0995(China)





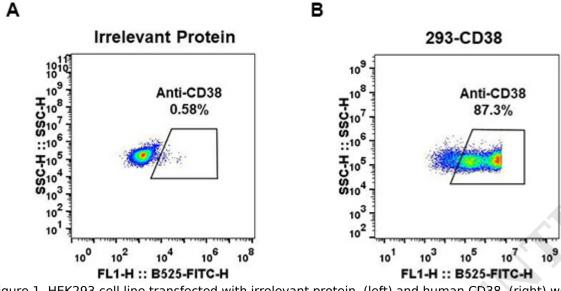


Figure 1. HEK293 cell line transfected with irrelevant protein (left) and human CD38 (right) were surface stained with Rabbit anti-CD38 monoclonal antibody  $1\mu$ g/ml (clone: DM28) followed by Alexa 488-conjugated anti-rabbit IgG secondary antibody.

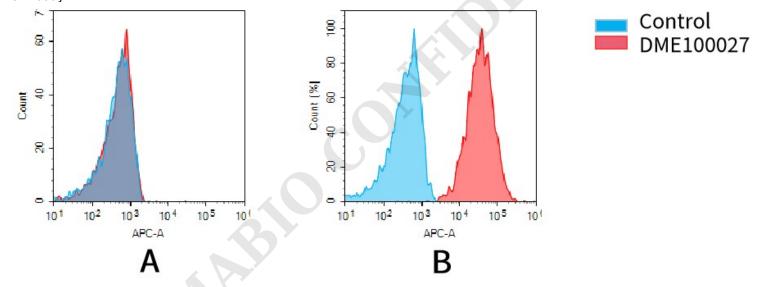


Figure 2. Flow cytometry analysis of antigen binding of rabbit anti-human CD38 mAb (DME100027). (A) DME100027 does not bind to 293T cells that do not express CD38. (B) A clear peak shift of DME100027 was seen compared to the control when incubated with CD38-expressing H929 cells, indicating strong binding of DME100027 to CD38. Antibodies were incubated at 5  $\mu$ g/mL.

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



Cat. No. DME100027



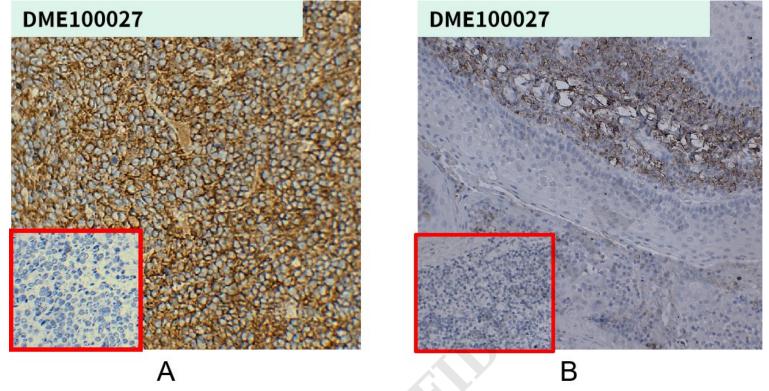


Figure 3. A. DME100027 at  $5\mu g/ml$  staining CD38 in RPMI-8226 MM xenografts in NSG mice by IHC (SKU# DME100027); B: DME100027at  $5\mu g/ml$  staining CD38 in human tonsil tissue by IHC (SKU# DME100027);

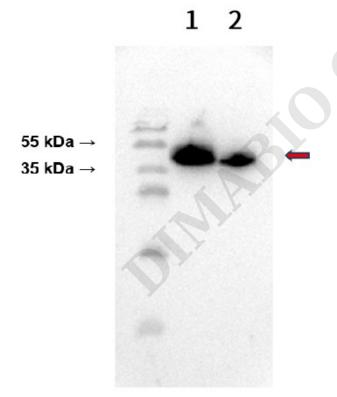
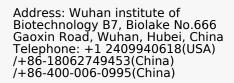


Figure 4. Western blot analysis of CD38 protein using Anti-CD38 antibody (Cat. DME100027) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H L) at 1:5000 dilution.

1. MM.15 cell lysate (native CD38 protein)

2. H929 cell lysate (native CD38 protein)

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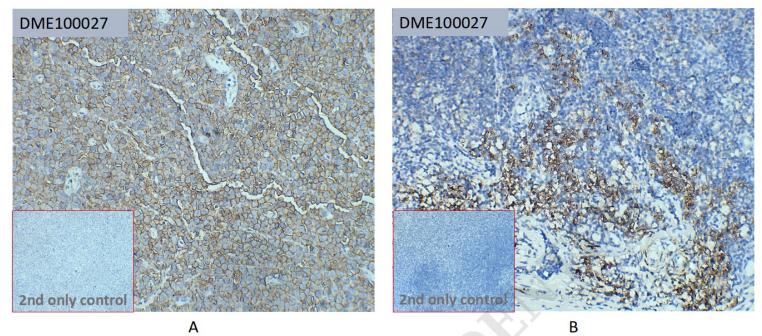
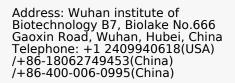


Figure 5. A. DME100027 at 10μg/ml staining CD38 in M-NSG Daudi DiSliceX™ SlideSet section by IHC (SKU# DME100027);B. DME100027 at 10μg/ml staining CD38 in human tonsil tissue by IHC (SKU# DME100027).



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