

## Rabbit anti-Human CD38 Monoclonal Antibody | anti-CD38 antibody

Anti-CD38 antibody (DM30), Rabbit mAb

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                            |
|-----------|--------|------------|-----------------------------------------|
| AAA47181  | Rabbit | Human      | Flow Cytometry, Functional Assay, ELISA |

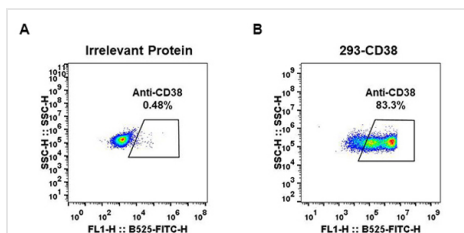
### PRODUCT SYNONYMS

CD38; Monoclonal Antibody; Anti-CD38 antibody (DM30); Rabbit mAb; T10; cADPr hydrolase 1; anti-CD38 antibody

### PRODUCT SPECIFICATIONS

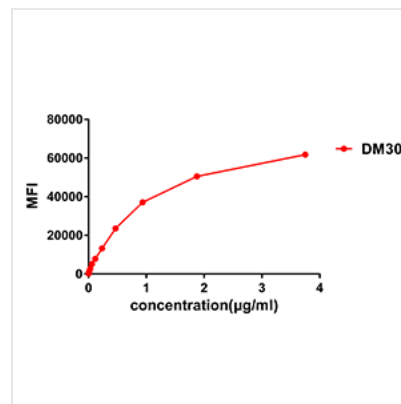
|                                                |                                                                                                 |
|------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                          |
| Reactivity                                     | Human                                                                                           |
| Clonality                                      | Monoclonal                                                                                      |
| Isotype                                        | Rabbit IgG                                                                                      |
| Clone Number                                   | DM30                                                                                            |
| Purity/Purification                            | Purified from cell culture supernatant by affinity chromatography                               |
| Form/Format                                    | Liquid; 0.1% Procline 300; 50% Glycerol; PBS, pH7.4; 0.1% BSA                                   |
| Applicable Applications for anti-CD38 antibody | FCM/FACS (Flow Cytometry), ELISA                                                                |
| Immunogen                                      | Recombinant human CD38 (Val43-Ile300) produced by using human HEK293 cells                      |
| Reconstitution                                 | Reconstitute with deionized water                                                               |
| Preservative                                   | 0.1% Procline 300                                                                               |
| Constituents                                   | 50% Glycerol; PBS,pH 7.4; 0.1% BSA                                                              |
| Preparation and Storage                        | Store at -20 degree C for 12 months (Avoid repeated freezing and thawing)<br>Shipping: Blue Ice |

### IMAGES



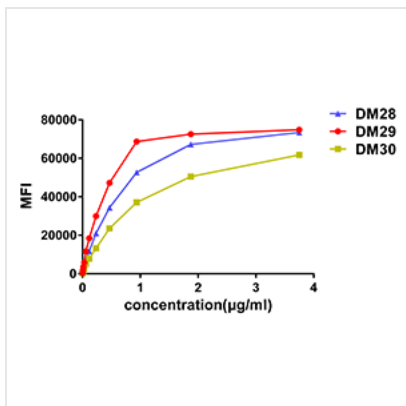
#### FCM/FACS (Flow Cytometry)

Figure 3. Affinity ranking of different Rabbit anti-CD38 mAb clones by titration of different concentration onto Raji cells. The Y-axis represents the mean fluorescence intensity (MFI) while the X-axis represents the concentration of IgG used.



#### ELISA

Figure 3. Affinity ranking of different Rabbit anti-CD38 mAb clones by titration of different concentration onto Raji cells. The Y-axis represents the mean fluorescence intensity (MFI) while the X-axis represents the concentration of IgG used.



#### ELISA

Figure 3. Affinity ranking of different Rabbit anti-CD38 mAb clones by titration of different concentration onto Raji cells. The Y-axis represents the mean fluorescence intensity (MFI) while the X-axis represents the concentration of IgG used.

### ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CD38 antibody | 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 <sup>+</sup> to ADP-ribose. These reaction products are essential for the regulation of intracellular Ca <sup>2+</sup> . 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. |
| Product Categories/Family for anti-CD38 antibody   | Primary Antibody                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

### NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                                                 |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 55977782                                                                                                                                                                                                                                                        |
| NCBI GeneID                      | 952                                                                                                                                                                                                                                                             |
| UniProt Accession #              | P28907; O00121; O00122; Q96HY4                                                                                                                                                                                                                                  |
| Molecular Weight                 | 300                                                                                                                                                                                                                                                             |
| NCBI Official Full Name          | ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1                                                                                                                                                                                                               |
| NCBI Official Synonym Full Names | CD38 molecule                                                                                                                                                                                                                                                   |
| NCBI Official Symbol             | CD38                                                                                                                                                                                                                                                            |
| NCBI Official Synonym Symbols    | T10; ADPRC 1                                                                                                                                                                                                                                                    |
| NCBI Protein Information         | ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1; cADPr hydrolase 1; CD38 antigen (p45); NAD(+) nucleosidase; ADP-ribosyl cyclase 1; 2'-phospho-ADP-ribosyl cyclase; 2'-phospho-cyclic-ADP-ribose transferase; 2'-phospho-ADP-ribosyl cyclase/2'-phospho-cycli |
| UniProt Protein Name             | ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1                                                                                                                                                                                                               |
| UniProt Gene Name                | CD38                                                                                                                                                                                                                                                            |
| UniProt Synonym Gene Names       | ADPRC 1; cADPr hydrolase 1                                                                                                                                                                                                                                      |
| UniProt Entry Name               | CD38_HUMAN                                                                                                                                                                                                                                                      |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

