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Product datasheet for TA355181

CD38 Rabbit Monoclonal Antibody [Clone ID: DM30]

Product data:

Product Type:	Primary Antibodies
Clone Name:	DM30
Applications:	ELISA, FC
Recommended Dilution:	ELISA 1/5000-10000; Flow Cyt 1/100
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	Recombinant human CD38 (Val43-IIe300)(TP723927) produced by using human HEK293 cells
Formulation:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose is added as protectants before lyophilization. Preservative: 0.1% Procline 300
Reconstitution Method:	Reconstitute with deionized water
Purification:	Purified from cell culture supernatant by affinity chromatography
Conjugation:	Unconjugated
Storage:	Store at -20°C for 12 months (Avoid repeated freezing and thawing)
Stability:	12 months from date of despatch
Predicted Protein Size:	34kDa
Gene Name:	CD38 molecule
Database Link:	Entrez Gene 952 Human P28907

View online »

Background: 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.

Synonyms: T10

Product images:

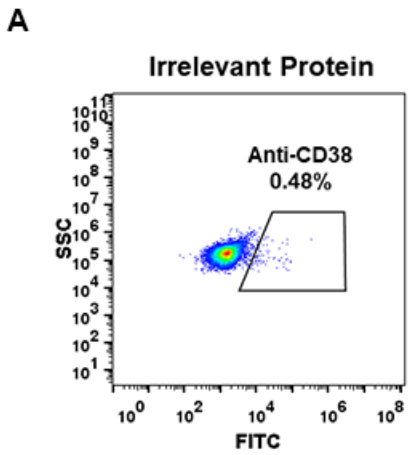

Figure 1. Expi 293 cell line transfected with irrelevant protein (left) and human CD38(right) were surface stained with Rabbit anti-CD38 monoclonal antibody 1µg/ml (clone: DM30) followed by Alexa 488-conjugated anti-rabbit IgG secondary antibody.

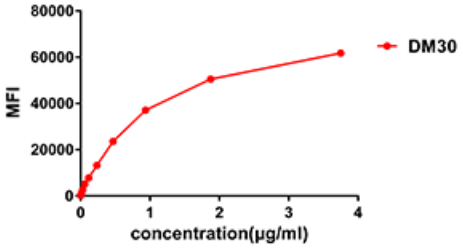

Figure 2. Flow cytometry data of serially titrated Rabbit anti-CD38 monoclonal antibody (clone: DM30) on Raji cells. The Y-axis represents the mean fluorescence intensity (MFI) while the X-axis represents the concentration of IgG used.

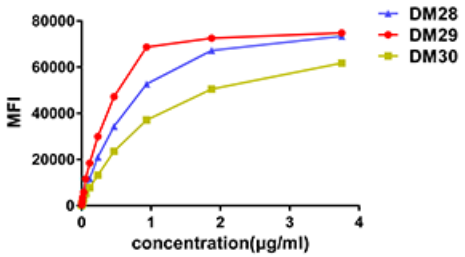

Figure 3. Affinity ranking of different Rabbit anti-CD38 mAb clones by titration of different concentration onto Raji cells. The Y-axis represents the mean fluorescence intensity (MFI) while the X-axis represents the concentration of IgG used.