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12-9019: Anti-CD38 antibody(DM28), Rabbit mAb

Clonality :	Monoclonal
Clone Name :	DM28
Application :	ELISA,FACS
Reactivity :	Human
Alternative Name :	T10, cADPr hydrolase 1
Isotype :	Rabbit IgG
Immunogen Information :	Recombinant humanÂ CD38Â (Val43-Ile300) produced by using human HEK293 cells

Description

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.

Product Info

Amount :	100 µg
Purification :	Purified from cell culture supernatant by affinity chromatography
Content :	Not Sterile
Storage condition :	Store at -20°C for 12 months (Avoid repeated freezing and thawing)

Application Note

Recommended Dilutions ELISA 1/5000-10000; FACS 1/100

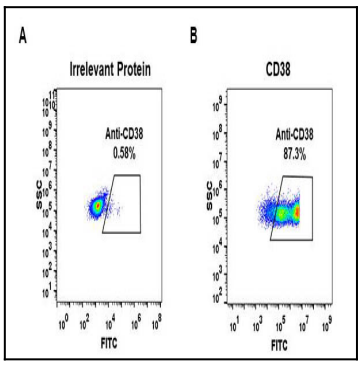


Figure 1. Expi 293 cell line transfected with irrelevant protein (left) and human CD38 (right) were surface stained with Rabbit anti-CD38 monoclonal antibody 1µg/ml (clone: DM28) followed by Alexa 488-conjugated anti-rabbit IgG secondary antibody.

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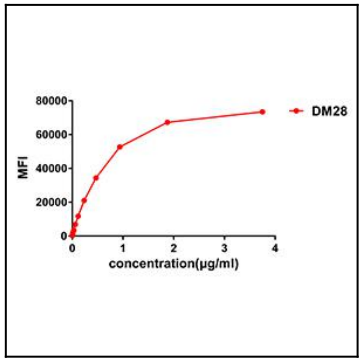


Figure 2. FACS data of serially titrated Rabbit anti-CD38 monoclonal antibody (clone: DM28) on Raji cells. The Y-axis represents the mean fluorescence intensity (MFI) while the X-axis represents the concentration of IgG used.

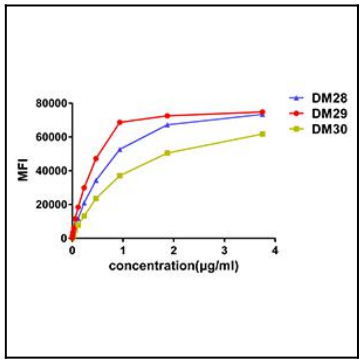


Figure 3. Affinity ranking of different Rabbit anti-CD38 mAb clones by titration of different concentration onto Raji cells. The Y-axis represents the mean fluorescence intensity (MFI) while the X-axis represents the concentration of IgG used.

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