CD38 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CD38, Monoclonal Antibody
Full Product Name	Mouse Human CD38 (APC)
Product Gene Name	anti-CD38 antibody
Clonality	Monoclonal
Isotype	IgG1
Clone Number	1D12-H8
Host	Mouse
Species Reactivity	Human
Form/Format	0.01M PBS, pH7.4, 0.2% (w/v) BSA, 0.09% (w/v) NaN3
Preparation and Storage	Store at 2-8 degree C. Keep away from light, do not freeze.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-CD38 antibody	MBS8559394 is an antibody targeting CD38. Also known as Mouse Human CD38 (APC). Reactive in Human. Host: Mouse.
Other Notes	Small volumes of anti-CD38 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD38. It may not necessarily be applicable to this product.

NCBI GI #	1911103
NCBI GeneID	952
UniProt Related Accession #	P28907
NCBI Official Full Name	CD38
NCBI Official Synonym Full Names	CD38 molecule
NCBI Official Symbol	CD38
NCBI Official Synonym Symbols	ADPRC1; ADPRC 1
Protein Family	ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase
NCBI Protein Information	ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1
NCBI Summary for CD38	The protein encoded by this gene is a non-lineage-restricted, type II transmembrane glycoprotein that synthesizes and hydrolyzes cyclic adenosine 5'-diphosphate-ribose, an intracellular calcium ion mobilizing messenger. The release of soluble protein and the ability of membrane-bound protein to become internalized indicate both extracellular and intracellular functions for the protein. This protein has an N-terminal cytoplasmic tail, a single membrane-spanning domain, and a C-terminal extracellular region with four N-glycosylation sites. Crystal structure analysis demonstrates that the functional molecule is a dimer, with the central portion containing the catalytic site. It is used as a prognostic marker for patients with chronic lymphocytic leukemia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]

Research Articles on CD38	**1.** CD38 dimerization did not affect RA-induced differentiation in HL-60 cells. Using CRISPR/Cas9 system to disrupt the CD38 gene in HL-60 cells, study found that apart from an increase in CD11b in one of three lines, ablation of all but six amino acids of the wild-type protein had no effect on RA-induced differentiation, suggesting that the CD38 is not necessary for the process to occur.
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