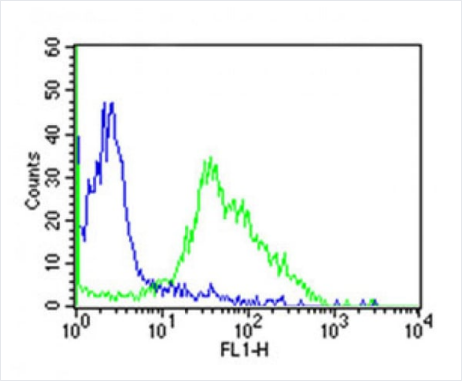
CD38 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CD38, Monoclonal Antibody
Full Product Name	Human CD38 Antibody
Product Gene Name	anti-CD38 antibody
Product Synonym Names	Purified Mouse Monoclonal Antibody (Mab)
Clonality	Monoclonal
Isotype	IgG1
Clone Number	OKT10
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied in PBS with 0.09% (W/V) sodium azide.
Purity/Purification	Purified through a protein G column, followed by dialysis against PBS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Molecular Weight	13,788 Da
OMIM	M34461 mRNA
Antigen Type	Recombinant Protein
Antigen Source	Human
Product Categories/Family for anti-CD38 antibody	Primary Antibodies
Applications Tested/Suitable for anti-CD38 antibody	Flow Cytometry (FC/FACS), ELISA (EIA)
Application Notes for anti-CD38 antibody	FC/FACS: 1:50
Related Product Information for anti-CD38 antibody	MBS9231268 is an antibody targeting CD38. Also known as Human CD38 Antibody. 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.



Flow Cytometry (FC/FACS) of anti-CD38 antibody
Overlay histogram showing huuman peripheral blood lymphocytes stained with CD38 antibody(green line). The cells were icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (1:50 dilution) for 60min at 37 degree C. The secondary antibody used was Goat Anti-Mouse IgG, DyLight 488 Conjugated Highly Cross-Adsorbed(OJ192088) at 1/200 dilution for 40min at 37 degree C. Isotype control antibody (blue line) was mouse IgG1 (1mug/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.

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
NCBI Accession #	BAA18966.1
UniProt Secondary Accession #	O00121; O00122; Q96HY4
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
UniProt Protein Name	ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1
UniProt Synonym Protein Names	2'-phospho-ADP-ribosyl cyclase; 2'-phospho-ADP-ribosyl cyclase/2'-phospho-cyclic-ADP-ribose transferase (EC:2.4.99.20); 2'-phospho-cyclic-ADP-ribose transferase; ADP-ribosyl cyclase 1; ADPRC 1; Cyclic ADP-ribose hydrolase 1; cADPr hydrolase 1; T10; CD_antigen: CD38
Protein Family	ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase
UniProt Gene Name	CD38
UniProt Synonym Gene Names	ADPRC 1; cADPr hydrolase 1
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]

UniProt Comments for CD38	Synthesizes the second messagers cyclic ADP-ribose and nicotinate-adenine dinucleotide phosphate, the former a second messenger for glucose-induced insulin secretion. Also has cADPr hydrolase activity. Also moonlights as a receptor in cells of the immune system.
Research Articles on CD38	**1.** Panobinostat increased CD38 expression in a dose-dependent manner in primary myeloma cells. This was specific for myeloma cells and did not occur in lymphoma cell lines. This increase enabled the antimyeloma activity of daratumumab.
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