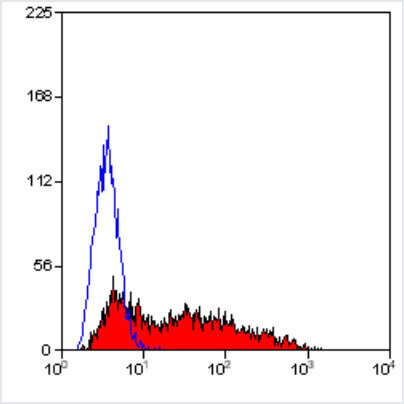
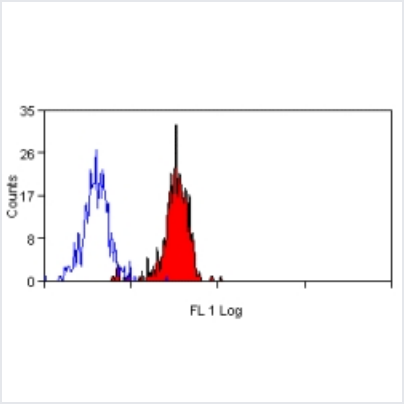
CD38 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

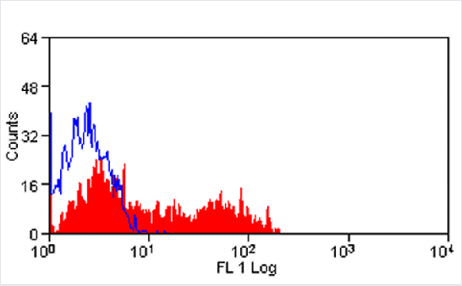
Product Name	CD38, Monoclonal Antibody
Full Product Name	MOUSE ANTI HUMAN CD38:Biotin
Product Gene Name	anti-CD38 antibody
Clonality	Monoclonal
Isotype	IgG1
Clone Number	AT13/5
Host	Mouse
Form/Format	Biotin Purified IgG conjugated to Biotin - liquid
Concentration	IgG concentration 0.1 mg/ml (lot specific)
Preparation and Storage	Store at 4 degree C or at -20 degree C if preferred. This product should be stored undiluted. Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 18 months from date of despatch.
Molecular Weight	13,788 Da
OMIM	107270
3D Structure	ModBase 3D Structure for P28907
Perservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin Preparation||Purified IgG prepared by affinity chromatography on Protein A
Immunogen	Namalwa human B-cell line Fusion Partners||Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line. Buffer Solution||Phosphate buffered saline
Target Species	Human
Applications Tested/Suitable for anti-CD38 antibody	Flow cytometry (FC/FACS)
Application Notes for anti-CD38 antibody	Flow Cytometry: Use 10ul of the suggested working dilution to label 106 cells or 100ul whole blood **Flow Cytometry:** Maximum Dilution: Neat
Related Product Information for anti-CD38 antibody	Mouse anti Human CD38 antibody, clone AT13/5 recognizes a 45kDa glycoprotein and has a reactivity pattern consistent with antibodies of the CD38 cluster. CD38 is expressed by plasma cells, monocytes, early lymphoid cells and activated T cells. CD38 is widely used to study the processes of B and T differentiation and activation. Recently CD38 has been shown to possess ADP-ribosyl cyclase activity.
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.
Searchable Terms for CD38 purchase	MBS210303 is an antibody targeting CD38. Also known as MOUSE ANTI HUMAN CD38:Biotin. Host: Mouse.



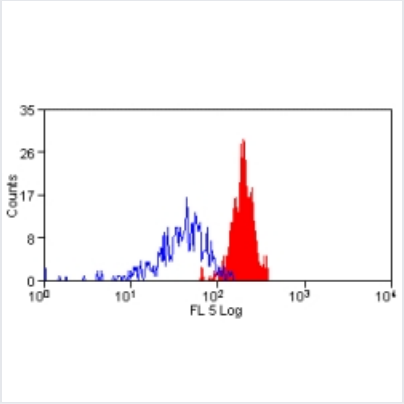
Testing Data of anti-CD38 antibody
Staining of human peripheral blood lymphocytes with Mouse anti Human CD38:Alexa Fluor 647 (MBS211993A647)



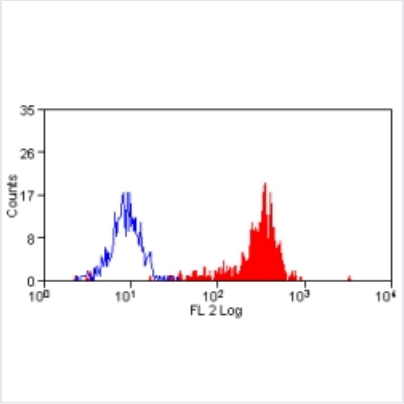
Testing Data of anti-CD38 antibody
Staining of human peripheral blood monocytes with Mouse anti Human CD38:Biotin



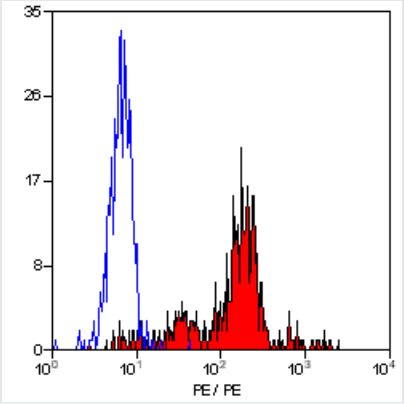
Testing Data of anti-CD38 antibody
Staining of human peripheral blood lymphocytes with Mouse anti Human CD38:Biotin



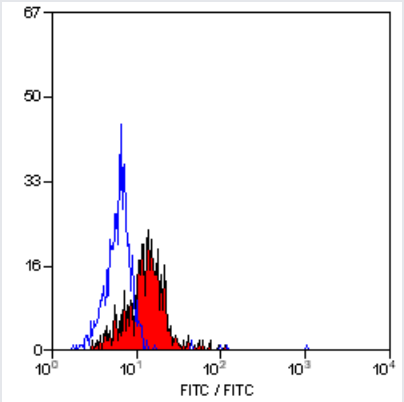
Testing Data of anti-CD38 antibody
Staining of human peripheral blood monocytes with Mouse anti Human CD38:RPE-Alexa Fluor 750 (MBS211993P750)



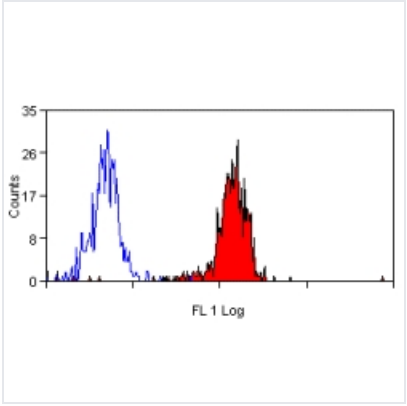
Testing Data of anti-CD38 antibody
Staining of human peripheral blood monocytes with Mouse anti Human CD38:RPE (MBS213537)



Testing Data of anti-CD38 antibody
Staining of human peripheral blood monocytes with Mouse anti Human CD38:RPE (MBS213537)



Testing Data of anti-CD38 antibody
Staining of human peripheral blood monocytes using Mouse anti Human CD38:FITC (MBS210596)



Testing Data of anti-CD38 antibody
Staining of human peripheral blood monocytes with Mouse anti Human CD38:Azide Free (MBS210116)

ADDITIONAL DETAILS

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

NCBI GI #	38454326
NCBI GeneID	952
NCBI Accession #	NP_001766.2
UniProt Primary Accession #	P28907
UniProt Secondary Accession #	O00121; O00122; Q96HY4
UniProt Related Accession #	P28907
GenBank Nucleotide #	NM_001775.2
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
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
UniProt Entry Name	CD38_HUMAN
NCBI Protein Information	ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1; 2'-phospho-ADP-ribosyl cyclase; 2'-phospho-ADP-ribosyl cyclase/2'-phospho-cyclic-ADP-ribose transferase; ADP-ribosyl cyclase 1; CD38 antigen (p45); NAD(+) nucleosidase; cADPr hydrolase 1
NCBI Summary for CD38	CD38 is a novel multifunctional ectoenzyme widely expressed in cells and tissues especially in leukocytes. CD38 also functions in cell adhesion,signal transduction and calcium signaling. [provided by RefSeq, Jul 2008]

UniProt Comments for CD38	CD38: Synthesizes cyclic ADP-ribose, a second messenger for glucose-induced insulin secretion. Also has cADPr hydrolase activity. Also moonlights as a receptor in cells of the immune system. Belongs to the ADP-ribosyl cyclase family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; EC 2.4.99.20; Cell surface; Cofactor and Vitamin Metabolism - nicotinate and nicotinamide; Lyase; Hydrolase; EC 3.2.2.6; Apoptosis; Cell cycle regulation Chromosomal Location of Human Ortholog: 4p15 Cellular Component: cell surface; membrane; plasma membrane; integral to membrane; nucleus Molecular Function: transferase activity; phosphorus-oxygen lyase activity; NAD+ nucleosidase activity; NAD(P)+ nucleosidase activity Biological Process: response to drug; response to retinoic acid; metabolic process; positive regulation of transcription, DNA-dependent; positive regulation of insulin secretion; female pregnancy; signal transduction; positive regulation of cell growth; response to estradiol stimulus; elevation of cytosolic calcium ion concentration; B cell receptor signaling pathway; response to hydroperoxide; positive regulation of vasoconstriction; response to hypoxia; positive regulation of B cell proliferation; negative regulation of bone resorption; response to progesterone stimulus; negative regulation of transcription, DNA-dependent; negative regulation of apoptosis
Research Articles on CD38	**1.** Studies indicate that vertebrate ADP-ribosyl cyclases (ARCs) Bst1 and CD38 with common gene structure of invertebrate ARC, suggesting the origin to the ancestor of bilaterian animals.
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