CD38 Antibody – Rabbit Monoclonal

PRODUCT OVERVIEW

Product Name	CD38, Monoclonal Antibody
Full Product Name	CD38 (ADP Ribosyl Cyclase I) Recombinant Rabbit Monoclonal Antibody [Clone CD38/6448R]
Product Gene Name	anti-CD38 antibody
Product Synonym Names	CD38 (ADP Ribosyl Cyclase I); Acute Lymphoblastic Leukemia Cells Antigen; ADP Ribosyl Cyclase 1; cADP-ribose Hydrolase 1; CD38H; NAD(+) Nucleosidase; NIM-R5 Antigen; p45; T10
Clonality	Monoclonal
Isotype	Rabbit/IgG, kappa
Clone Number	CD38/6448R
Host	Rabbit
Species Reactivity	Human
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0. 05% BSA & 0. 05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Concentration	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml (lot specific)
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C Antibody without azide: store at -20 to -80 degree C Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Molecular Weight	300
OMIM	107270
3D Structure	ModBase 3D Structure for P28907
Antibody Type	Recombinant Antibody
Immunogen	Synthetic peptide corresponding to residues within aa 200-300 of human CD38 (exact sequence is proprietary)
Cellular Localization	Cell Surface, Cytoplasm
Positive Control	Human tonsil or spleen. Raji cells.
Hu-chromosome Location	4p15
Unigene	479214
Applications Tested/Suitable for anti-CD38 antibody	Western Blot (WB), Immunohistochemistry-Formalin (IHC-F)
Application Notes for anti-CD38 antibody	WB: 1-2ug/ml IHC (Formalin-fixed): 1-2ug/ml for 30 minutes at RT (Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH9.0, for 45 minutes at 95 degree C followed by cooling at RT for 20 minutes)
Related Product Information for anti-CD38 antibody	CD38 is a type II transmembrane glycoprotein that is present on early B- and T-cell lineages and activated B- and T-cells but is absent from most mature resting peripheral lymphocytes. CD38 is found on thymocytes, pre-B cells, germinal center B-cells, mitogen-activated T-cells, monocytes and Ig-secreting plasma cells. CD38 is expressed on CD34+ cells. The CD34+CD38- population of hematopoietic stems cells define the most pluripotent cells (e. g. blast colony forming cells).

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	MBS4382401 is an antibody targeting CD38. Also known as CD38 (ADP Ribosyl Cyclase I) Recombinant Rabbit Monoclonal Antibody [Clone CD38/6448R]. Reactive in Human. Host: Rabbit.



Immunohistochemistry (IHC)-Formalin of anti-CD38 antibody

ADDITIONAL DETAILS

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

NCBI GI #	55977782
NCBI GeneID	952
NCBI Accession #	P28907.2
UniProt Primary Accession #	P28907
UniProt Secondary Accession #	O00121; O00122; Q96HY4
UniProt Related Accession #	P28907
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; cADPr hydrolase 1; CD38 antigen (p45); NAD(+) nucleosidase; ADP-ribosyl cyclase 1; 2'-phospho-ADP-ribosyl cyclase; 2'-phospho-cyclic-ADP-ribose transferase; 2'-phospho-ADP-ribosyl cyclase/2'-phospho-cycli
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: EC 3.2.2.6; EC 2.4.99.20; Cofactor and Vitamin Metabolism - nicotinate and nicotinamide; Hydrolase; Cell surface; Apoptosis; Lyase; Membrane protein, integral; Cell cycle regulation Chromosomal Location of Human Ortholog: 4p15 Cellular Component: cell surface; membrane; integral to membrane; plasma 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; B cell receptor signaling pathway; elevation of cytosolic calcium ion concentration; response to hydroperoxide; positive regulation of B cell proliferation; positive regulation of vasoconstriction; response to hypoxia; response to progesterone stimulus; negative regulation of transcription, DNA-dependent; negative regulation of bone resorption; negative regulation of apoptosis
Research Articles on CD38	**1.** nominal associations were found between autism spectrum disorder scores and single-nucleotide polymorphisms in OXT, ARNT2 and CD38
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