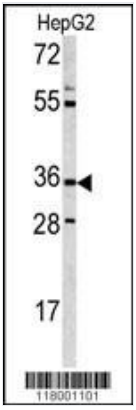
CD38 Antibody – Rabbit Polyclonal

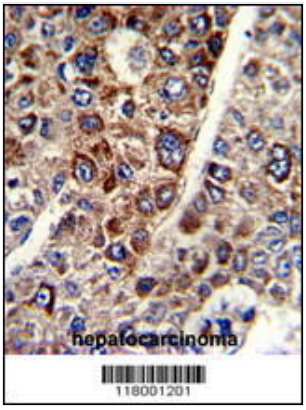
PRODUCT OVERVIEW

Product Name	CD38, Polyclonal Antibody
Full Product Name	CD38, CT (CD38, ADP-ribosyl cyclase 1, Cyclic ADP-ribose hydrolase 1, T10, CD38) (MaxLight 650)
Product Gene Name	anti-CD38 antibody
Product Synonym Names	CD38; ADP-ribosyl cyclase 1; Cyclic ADP-ribose hydrolase 1; T10; CD38
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by saturated ammonium sulfate precipitation followed by dialysis against PBS.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	300
OMIM	107270
3D Structure	ModBase 3D Structure for P28907
Immunogen	CD38 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 253~283 amino acids from the C-terminal region of human CD38.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-CD38 antibody	Antibodies; CD Markers
Applications Tested/Suitable for anti-CD38 antibody	Flow Cytometry (FC/FACS), FLISA, Immunofluorescence (IF), Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-CD38 antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 IHC: 1:50-100 WB: 1:50-100 Applications are based on unconjugated antibody.
Related Product Information for anti-CD38 antibody	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.
Product References and Citations for anti-CD38 antibody	Horenstein, A.L., Mol. Med. 15 (3-4), 76-84 (2009). Liu, Q., Biochemistry 47 (52), 13966-13973 (2008). Liu, Q., Chem. Biol. 15 (10), 1068-1078 (2008).
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.

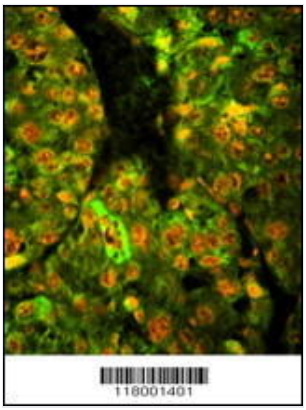
Searchable Terms for CD38 purchase	MBS6283156 is an antibody targeting CD38. Also known as CD38, CT (CD38, ADP-ribosyl cyclase 1, Cyclic ADP-ribose hydrolase 1, T10, CD38) (MaxLight 650). Reactive in Human. Host: Rabbit.



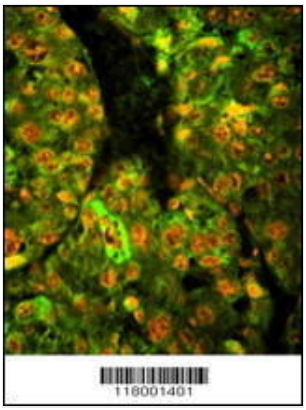
Western Blot (WB) of anti-CD38 antibody
Western blot analysis of CD38 antibody (C-term) in HepG2 cell line lysates (35ug/lane). CD38 (arrow) was detected using the purified Pab.



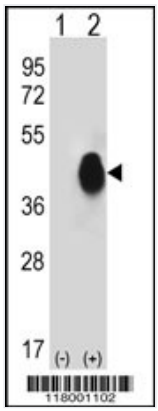
Immunohistochemistry (IHC) of anti-CD38 antibody
Formalin-fixed and paraffin-embedded human hepatocarcinoma with CD38 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Immunohistochemistry (IHC) of anti-CD38 antibody
Immunofluorescence analysis of CD38 Antibody (C-term) with paraffin-embedded human hepatocarcinoma tissue. 0.05 mg/ml primary antibody was followed by FITC-conjugated goat anti-rabbit IgG (whole molecule). FITC emits green fluorescence.Red counterstaining is PI.



Flow Cytometry (FC/FACS) of anti-CD38 antibody
Flow cytometric analysis of HepG2 cells using CD38 Antibody (C-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Western Blot (WB) of anti-CD38 antibody
Western blot analysis of CD38 (arrow) using rabbit polyclonal CD38 Antibody (C-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the CD38 gene.

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
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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