

CD38 recombinant antibody

Anti-CD38 [AT13/5]

CATALOG #	REACTIVITY	APPLICATIONS
AAA71987	Human	Flow Cytometry, Functional Assay

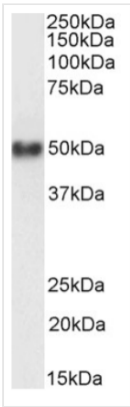
PRODUCT SYNONYMS

CD38; Monoclonal Recombinant Antibody; Anti-CD38 [AT13/5]; ADP-ribosyl cyclase 1; cyclic ADP-ribose hydrolase; EC 3.2.2.5; Cyclic ADP-ribose hydrolase 1; cADPr hydrolase 1; T10; p45; NAD(+) nucleosidase; CD38 recombinant antibody

PRODUCT SPECIFICATIONS

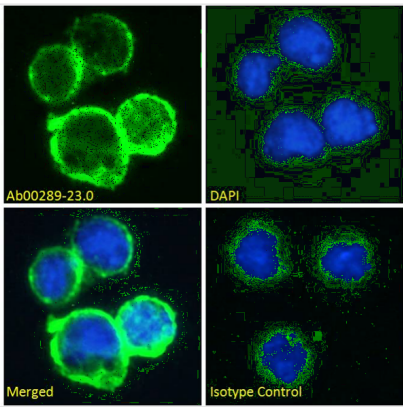
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG, Kappa
Clone Number	AT13/5
Specificity	Binds specifically to human CD38, an approximately 45 kDa type II transmembrane protein, expressed on essentially all pre-B lymphocytes, plasma cells, and thymocytes. Also present on activated T lymphocytes, natural killer (NK) lymphocytes, myeloblasts, and erythroblasts. Bimodally expressed during B cell development, modulating from high in immature cells to low in intermediate ones and back to high on mature B cells. This antibody competes with clone HB7 (Ab00128) (Ellis 1995) which has been shown to bind to an epitope between amino acids 273-285).
Purity/Purification	Protein A Affinity Purified
Concentration	1 mg/ml (varies by lot)
Sequence Length	300
Applicable Applications for CD38 recombinant antibody	FCM/FACS (Flow Cytometry)
Immunogen	Namalwa cells emulsified in CFA.
Buffer Composition	PBS only with 0.02% Proclin 300.
Chimeric Use Statement	This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.
Labeled Substance	None
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.

IMAGES



WB (Western Blot)

Western Blot using anti-CD38 antibody AT13/5 Human spleen lysate samples (35ug protein in RIPA buffer) were resolved on a 10% SDS PAGE gel and blots probed with the chimeric rabbit version of AT13/5 at 1 ug/ml before detection using an anti-rabbit secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence. The expected running size for CD38 is 34.3kDa, but this protein is glycosylated at several residues. successfully detected CD38 in human spleen lysate.



IF (Immunofluorescence)

Immunofluorescence staining of fixed Daudi cells with anti-CD38 antibody AT13/5. Immunofluorescence analysis of paraformaldehyde fixed Daudi cells on Shi-fix coverslips, permeabilized with 0.15% Triton and stained with the chimeric rabbit IgG version of AT13/5 at 10 ug/ml for 1h followed by Alexa Fluor 488 secondary antibody (1 ug/ml), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom DAPI, merged channels and an isotype control. The isotype control was stained with an anti-Fluorescein antibody followed by Alexa Fluor 488 secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for CD38 recombinant antibody	Recombinant monoclonal antibody to CD38. Manufactured using a proprietary Recombinant Platform with variable regions (i.e. specificity) from the hybridoma AT13/5. Namalwa cells emulsified in CFA.
Product Categories/Family for CD38 recombinant antibody	Immunology; Cancer; Celladhesion; Calcium
References	Ellis et al. Engineered anti-CD38 monoclonal antibodies for immunotherapy of multiple myeloma. Journal of Immunology PMID:7608568

NCBI AND UNIPROT INFORMATION

NCBI GI #	38454326
NCBI GeneID	952
NCBI Accession #	NP_001766.2
NCBI GenBank Nucleotide #	NM_001775.4
UniProt Accession #	P28907; O00121; O00122; Q96HY4
Molecular Weight	13,788 Da
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	ADPRC1; ADPRC 1
NCBI Protein Information	ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1
UniProt Protein Name	ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1
UniProt Gene Name	CD38
UniProt Synonym Gene Names	ADPRC 1; cADPr hydrolase 1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd38-recombinant-antibody-clone-at13-5-flow-cytometry-elisa/71987>