

Mouse CD38 Monoclonal Antibody | anti-CD38 antibody

anti-human CD38-Biotin

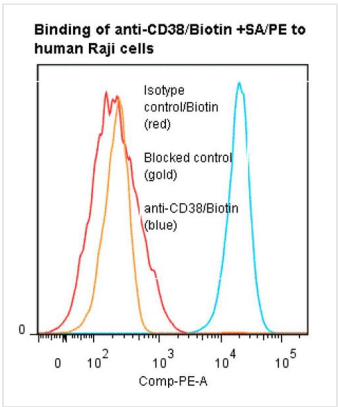
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA78148	Mouse	Human, Cynomolgus	Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

CD38; Monoclonal Antibody; anti-human CD38-Biotin; Monoclonal anti-human CD38/Biotin; anti-CD38 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Cynomolgus
Clonality	Monoclonal
Isotype	IgG1
Clone Number	AT1
Form/Format	50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA.
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	300
Applicable Applications for anti-CD38 antibody	FCM/FACS (Flow Cytometry)
Performance	Five x 10 ⁵ cultured human Raji cells were washed and incubated 45 minutes on ice with 80 ul of anti-CD38/Biotin at 5 ug/ml. Cells were washed twice and incubated with 2 degree reagent Streptavidin/R-PE after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 1.89 log ₁₀ fluorescent units when compared to a Mouse IgG1/Biotin negative control at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 ul of 0.5 mg/ml anti-CD38 antibody
Conjugation	Biotin
Production	Antibody from (low FBS containing) tissue culture supernatant was Protein A purified to >95% mouse immunoglobulin by SDS-PAGE (<1% bovine immunoglobulin), and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate using a desalting column.
Buffer	50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN3 (as a preservative).
Immunogen	Human T cell tumor cells: CEM
Preparation and Storage	Store at 2 - 5 degree C. Freeze/thawing not recommended. Product should retain activity for at least 12 months after shipping date when stored as recommended.



Application Data

ADDITIONAL INFORMATION

Related Product Information for anti-CD38 antibody	Information: Human CD38 is a type II transmembrane glycoprotein with bifunctional ectoenzyme activity catalyzing both synthesis and hydrolysis of cyclic ADP ribose (1). CD38 is involved in lymphocyte activation and adhesion to endothelium and has recently been identified as a counter-receptor of CD31 (2). Antibody AT1 recognizes the CD38 molecule of 45 kd.
References	1.) Leukocyte Typing VI (T. Kishimoto, et al, eds.) Garland Publishing, Inc., New York (1997) p. 151-157. 2.) S. Deaglio, et al, (1998) J Immunol 160:395-402.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1911103
NCBI GeneID	952
NCBI Official Full Name	CD38
NCBI Official Synonym Full Names	CD38 molecule
NCBI Official Symbol	CD38
NCBI Official Synonym Symbols	T10; ADPRC 1
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-cyclic-ADP-ribose transferase
UniProt Protein Name	ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1
UniProt Gene Name	CD38
UniProt Synonym Gene Names	ADPRC 1; cADPr hydrolase 1
UniProt Entry Name	CD38_HUMAN

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.