

**CD38 (ADP Ribosyl Cyclase I) Antibody - With BSA and Azide**  
**Mouse Monoclonal Antibody [Clone AT2 ]**  
**Catalog # AH12736****Specification****CD38 (ADP Ribosyl Cyclase I) Antibody - With BSA and Azide - Product Information**

Application	IF, FC
Primary Accession	<a href="#">P28907</a>
Other Accession	<a href="#">952, 479214</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG3, kappa
Calculated MW	~45kDa (Glycoprotein); 35kDa (protein core) kDa

**CD38 (ADP Ribosyl Cyclase I) Antibody - With BSA and Azide - Additional Information****Gene ID** 952**Other Names**

ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1, 3.2.2.6, 2'-phospho-ADP-ribosyl cyclase, 2'-phospho-ADP-ribosyl cyclase/2'-phospho-cyclic-ADP-ribose transferase, 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, CD38, CD38

**Application Note**

IF~~1:50~200  
FC~~1:10~50

**Storage**

Store at 2 to 8°C. Antibody is stable for 24 months.

**Precautions**

CD38 (ADP Ribosyl Cyclase I) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

**CD38 (ADP Ribosyl Cyclase I) Antibody - With BSA and Azide - Protein Information****Name** CD38**Function**

Synthesizes cyclic ADP-ribose (cADPR), a second messenger for glucose-induced insulin secretion (PubMed: [7961800](http://www.uniprot.org/citations/7961800), PubMed: [8253715](http://www.uniprot.org/citations/8253715)). Synthesizes the Ca(2+) mobilizer nicotinate-adenine dinucleotide phosphate, NAADP(+), from 2'-phospho-cADPR and nicotinic acid, as well as from NADP(+) and nicotinic acid. At both pH 5.0 and pH 7.4 preferentially transforms 2'-phospho-cADPR into NAADP(+), while preferentially

cleaving NADP(+) to cADPR and ADPRP rather than into NADDP(+) (PubMed:<a href="http://www.uniprot.org/citations/16690024" target="\_blank">16690024</a>). Has cADPR hydrolase activity (PubMed:<a href="http://www.uniprot.org/citations/7961800" target="\_blank">7961800</a>, PubMed:<a href="http://www.uniprot.org/citations/8253715" target="\_blank">8253715</a>).

**Cellular Location**

Cell surface. Membrane; Single-pass type II membrane protein

**Tissue Location**

Expressed at high levels in pancreas, liver, kidney, brain, testis, ovary, placenta, malignant lymphoma and neuroblastoma.

**CD38 (ADP Ribosyl Cyclase I) Antibody - With BSA and Azide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**CD38 (ADP Ribosyl Cyclase I) Antibody - With BSA and Azide - Images****CD38 (ADP Ribosyl Cyclase I) Antibody - With BSA and Azide - Background**

This MAb reacts with a 45kDa glycopeptide, which is a type II membrane glycoprotein with a transmembrane sequence near the NH<sub>2</sub>terminus. 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 also 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 stem cells defines the most pluripotent cells (e.g. blast colony forming cells).

**CD38 (ADP Ribosyl Cyclase I) Antibody - With BSA and Azide - References**

Deaglio S et. al. J Immunol. 1998;160(1):395-402