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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	**,3,4,**
Primary Accession	P28907
Other Accession	952, 479214
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

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, PubMed: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:16690024). Has cADPR hydrolase activity (PubMed:7961800, PubMed:<a href="http://www.uniprot.org/citations/8253715"

target="_blank">8253715).

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 Cytomety
- 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 NH2terminus. 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 stems 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