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CD38 (ADP Ribosyl Cyclase 1) Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone FS02] Catalog # AH12734

Product Information

ApplicationIF, FCPrimary AccessionP28907Other Accession952, 479214ReactivityHumanHostMouseClonalityMonoclonal

Isotype Mouse / IgG1, kappa

Clone Names FS02 Calculated MW 34328

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 1) Antibody - With BSA and Azide is for research

use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name CD38

Function Synthesizes cyclic ADP-ribose (cADPR), a second messenger for

glucose-induced insulin secretion (PubMed:<u>7961800</u>, PubMed:<u>8253715</u>). 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:<u>16690024</u>). Has cADPR

hydrolase activity (PubMed: 7961800, PubMed: 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.

Background

This antibody reacts with a type II membrane glycopeptide with a transmembrane sequence near the NH2-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 stems cells defines the most pluripotent cells (e.g. blast colony forming cells).

References

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.