

Product datasheet for **AM08041PU-N**

Cd38 Rat Monoclonal Antibody [Clone ID: NIMR-5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	NIMR-5
Applications:	FC, FN, IHC, IP
Recommended Dilution:	Flow Cytometry (Ref.1-8). Immunoprecipitation (Ref.1). Immunohistochemistry on Frozen Sections (Ref.7). Functional Assay: Induction of B lymphocyte proliferation (Ref.3-8).
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	BCL1 plasma membrane glycoproteins
Specificity:	This antibody is specific to CD38 (Mr. 42-46 kDa). Monoclonal antibodies to CD38 have been shown to induce B- and T-cell proliferation, protect B cells from apoptosis, and inhibit B lymphopoiesis. (Ref.1-8)
Formulation:	100 mM Borate Buffered Saline, pH 8.2. No preservatives or amine-containing buffer salts added. State: Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD38 antigen
Database Link:	Entrez Gene 12494 Mouse P56528



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Background:

Murine CD38, a type II transmembrane glycoprotein, is a bifunctional ectoenzyme capable of catabolizing Nicotinamide adenine dinucleotide (NAD⁺) to cyclic ADP-ribose (cADPR), and then hydrolyzing cADPR to adenosine diphosphoribose (ADPR). It is expressed at high levels on the surface of peripheral B-lineage cells, and at low density on germinal center B cells from unimmunized mice. It has also been reported to be expressed at moderate levels on NK cells, a proportion of peripheral T cells, and a subpopulation of thymocytes which are mostly TCRalpha⁺, CD4⁻, CD8⁻. Murine CD38 is also expressed by all Mac-1⁺ macrophages in the peritoneal cavities of unimmunized mice, but not by unstimulated bone-marrow-derived macrophages.

Synonyms:

cADPr hydrolase 1, T10