

Product datasheet for **AM08041AC-N**

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

Product data:

Product Type:	Primary Antibodies
Clone Name:	NIMR-5
Applications:	FC
Recommended Dilution:	Flow Cytometry: < / = 0.2 µg/10e6 cells. (Ref.1-8)
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
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:	PBS containing 0.09% Sodium Azide as preservative and a stabilizing agent. Label: APC State: Liquid purified Ig fraction. Label: Allophycocyanin
Concentration:	lot specific
Conjugation:	APC
Storage:	Store the antibody undiluted at 2-8°C. DO NOT FREEZE! This product is photosensitive and should be protected from light. 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