

## Product datasheet for **AM08041LE-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:	<b>Flow Cytometry.</b> (Ref.1-8) <b>Immunoprecipitation.</b> (Ref.1) <b>Immunohistochemistry on Frozen Sections.</b> (Ref.7) <b>Functional Assay:</b> Induction of B lymphocyte proliferation. (Ref.3-8)
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 no preservatives. State: Low Endotoxin State: Liquid purified Ig fraction.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD38 antigen
Database Link:	<a href="#">Entrez Gene 12494 Mouse P56528</a>



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**Background:**

Murine CD38, a type II transmembrane glycoprotein, is a bifunctional ectoenzyme capable of catabolizing Nicotinamide adenine dinucleotide (NAD<sup>+</sup>) 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<sup>+</sup>, CD4<sup>-</sup>, CD8<sup>-</sup>. Murine CD38 is also expressed by all Mac-1<sup>+</sup> macrophages in the peritoneal cavities of unimmunized mice, but not by unstimulated bone-marrow-derived macrophages.

**Synonyms:**

cADPr hydrolase 1, T10