



Rat Anti-Mouse CD38 Monoclonal antibody, clone NIMR5 (CABT-L4542)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

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| Product Overview | The NIMR5 monoclonal antibody reacts with mouse CD38 a 42 kDa type II transmembrane glycoprotein. CD38 is expressed on immature and mature resting and activated B cells as well as NK cells and a subset of T cells. |
| Target | Mouse CD38 |
| Immunogen | BCL1 plasma membrane glycoproteins |
| Isotype | IgG2a, κ |
| Source/Host | Rat |
| Species Reactivity | Mouse |
| Clone | NIMR5 |
| Purification | Protein G purified. Purity>95%. Determined by SDS-PAGE |
| Conjugate | Functional Grade |
| Applications | in vivo CD38 stimulation, in vitro CD38 stimulation, in vitro B cell activation, IF, ELISA, FC |
| Molecular Weight | 150 kDa |
| Format | 0.2 μM filtered liquid. Purified from tissue culture supernatant in an animal free facility |
| Concentration | Lot specific |
| Size | 5 mg |

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| Buffer | PBS, pH 7.0. Contains no stabilizers or preservatives. [low endotoxin azide-free] Endotoxin level: <2EU/mg (<0.002EU/μg). Determined by LAL gel clotting assay Related dilution buffer: CABT-LB04 |
| Preservative | None |
| Storage | The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze. |
| Ship | Wet ice |

BACKGROUND

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| Introduction | The NIMR5 monoclonal antibody reacts with mouse CD38 a 42 kDa type II transmembrane glycoprotein. CD38 is expressed on immature and mature resting and activated B cells as well as NK cells and a subset of T cells. CD38 expression is down-regulated on mouse germinal center B cells and plasma cells. CD38 is a multifunctional protein involved in NAD homeostasis and in the generation of the second messengers ADPR and cyclic ADPR which are involved in intracellular calcium signaling. Antibodies against CD38 have been shown to be highly efficacious in the treatment of multiple myeloma. The NIMR5 antibody is reported as an agonistic antibody and has been shown to induce B cell proliferation, protect B cells from apoptosis, and slow disease progression in tumor-bearing mice. |
| Keywords | CD38;CD38 antigen;ADPRC 1;Cd38-rs1;ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1;I-19;NIM-R5 antigen;cADPr hydrolase 1;ADP-ribosyl cyclase 1;cyclic ADP-ribose hydrolase 1 |

GENE INFORMATION

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| Official Symbol | CD38 antigen |
| Synonyms | CD38; CD38 antigen; ADPRC 1; Cd38-rs1; ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1; I-19; NIM-R5 antigen; cADPr hydrolase 1; ADP-ribosyl cyclase 1; cyclic ADP-ribose hydrolase 1 |