



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

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

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

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

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