ARG20918
anti-CD38 antibody [NIMR-5] (FITC)

Package: 100 µg
Store at: 4°C

Summary

Product Description	FITC-conjugated Rat Monoclonal antibody [NIMR-5] recognizes CD38
Tested Reactivity	Ms
Tested Application	BL, Cell-Act , FACS, IHC-Fr
Specificity	Mouse CD38.
Host	Rat
Clonality	Monoclonal
Clone	NIMR-5
Isotype	IgG2a, kappa
Target Name	CD38
Species	Mouse
Immunogen	BCL1 plasma membrane glycoproteins
Conjugation	FITC
Alternate Names	cADPr hydrolase 1; ADPRC 1; EC 3.2.2.6; 2'-phospho-ADP-ribosyl cyclase/2'-phospho-cyclic-ADP-ribose transferase; Cyclic ADP-ribose hydrolase 1; ADPRC1; EC 2.4.99.20; ADP-ribosyl cyclase 1; 2'-phospho-cyclic-ADP-ribose transferase; CD antigen CD38; T10; 2'-phospho-ADP-ribosyl cyclase; ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1

Application Instructions

Application table

Application	Dilution
BL	Assay-dependent
Cell-Act	Assay-dependent
FACS	< 1 µg/10^6 cells
IHC-Fr	Assay-dependent

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

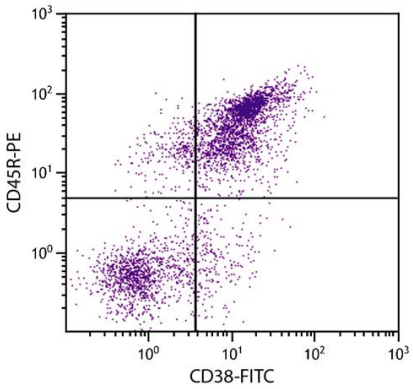
Form	Liquid
Buffer	PBS and 0.1% Sodium azide.
Preservative	0.1% Sodium azide
Concentration	0.5 mg/ml
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be

	gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 12494 Mouse Swiss-port # P56528 Mouse
Gene Symbol	CD38
Gene Full Name	CD38 antigen
Background	The protein encoded by this gene is a non-lineage-restricted, type II transmembrane glycoprotein that synthesizes and hydrolyzes cyclic adenosine 5'-diphosphate-ribose, an intracellular calcium ion mobilizing messenger. The release of soluble protein and the ability of membrane-bound protein to become internalized indicate both extracellular and intracellular functions for the protein. This protein has an N-terminal cytoplasmic tail, a single membrane-spanning domain, and a C-terminal extracellular region with four N-glycosylation sites. Crystal structure analysis demonstrates that the functional molecule is a dimer, with the central portion containing the catalytic site. It is used as a prognostic marker for patients with chronic lymphocytic leukemia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]
Function	Synthesizes the second messagers cyclic ADP-ribose and nicotinate-adenine dinucleotide phosphate, the former a second messenger for glucose-induced insulin secretion. Also has cADPr hydrolase activity. Also moonlights as a receptor in cells of the immune system. [UniProt]
Research Area	Cancer antibody; Developmental Biology antibody; Immune System antibody; Metabolism antibody; Pro-B Cell Marker antibody; Pre-B Cell Marker antibody
Calculated Mw	34 kDa

Images



ARG20918 anti-CD38 antibody [NIMR-5] (FITC) FACS image

Flow Cytometry: BALB/c Mouse splenocytes stained with ARG20918 anti-CD38 antibody [NIMR-5] (FITC) and ARG65534 anti-CD45R / B220 antibody [RA3-6B2] (PE).