

## ARG56097 anti-CD38 antibody [FS02]

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody [FS02] recognizes CD38
Tested Reactivity	Hu
Tested Application	FACS, ICC/IF
Host	Mouse
Clonality	Monoclonal
Clone	FS02
Isotype	IgG1, kappa
Target Name	CD38
Species	Human
Immunogen	Human CD38.
Conjugation	Un-conjugated
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
	FACS	0.5 - 1 µg/10 <sup>6</sup> cells in 0.1ml
	ICC/IF	1 - 2 µg/ml

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

### Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 0.05% Sodium azide and 0.1 mg/ml BSA
Preservative	0.05% Sodium azide
Stabilizer	0.1 mg/ml BSA
Concentration	0.2 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. 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

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**Database links**

[GeneID: 952 Human](#)

[Swiss-port # P28907 Human](#)

**Gene Symbol**

CD38

**Gene Full Name**

CD38 molecule

**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 messengers 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

**Cellular Localization**

Cell surface, cytoplasm and nucleus