

## ARG56097 anti-CD38 antibody [FS02]

Package: 50 µg  
Store at: -20°C

### Summary

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| 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

|                     |                                                                                                                                                                                                                                                                                                                |
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| 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        | <a href="#">GeneID: 952 Human</a><br><br><a href="#">Swiss-port # P28907 Human</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |