

## Mouse anti-Human CD38 Monoclonal Antibody | anti-CD38 antibody

Anti-Hu CD38 PE-Cyanine5

| CATALOG # | HOST  | REACTIVITY | APPLICATIONS                     |
|-----------|-------|------------|----------------------------------|
| AAA128590 | Mouse | Human      | Flow Cytometry, Functional Assay |

### PRODUCT SYNONYMS

CD38; Monoclonal Antibody; Anti-Hu CD38 PE-Cyanine5; CD38 molecule; ADPRC1; Cyclic ADP-ribose hydrolase 1; cADPr hydrolase 1; T10; NAD(+) nucleosidase; ADP-ribosyl cyclase 1; anti-CD38 antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                                                                              |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Mouse                                                                                                                                                                                                                                                        |
| Reactivity                                     | Human                                                                                                                                                                                                                                                        |
| Clonality                                      | Monoclonal                                                                                                                                                                                                                                                   |
| Isotype                                        | IgG1                                                                                                                                                                                                                                                         |
| Clone Number                                   | HIT2                                                                                                                                                                                                                                                         |
| Specificity                                    | The mouse monoclonal antibody HIT2 reacts with an extracellular epitope of CD38 (T10), a 45 kDa type II transmembrane glycoprotein strongly expressed mainly on plasma cells and activated T and B lymphocytes; it is an antigenic marker of lymphoid cells. |
| Purity/Purification                            | The purified antibody is conjugated with tandem dye PE-Cyanine5 under optimum conditions. The conjugate is purified by size-exclusion chromatography.                                                                                                        |
| Form/Format                                    | Stabilizing phosphate buffered saline (PBS) solution containing 15 mM sodium azide                                                                                                                                                                           |
| Sequence Length                                | 300                                                                                                                                                                                                                                                          |
| Applicable Applications for anti-CD38 antibody | FCM/FACS (Flow Cytometry)                                                                                                                                                                                                                                    |
| Immunogen                                      | Human thymocytes in foetus                                                                                                                                                                                                                                   |
| Conjugation                                    | PE-Cyanine5                                                                                                                                                                                                                                                  |
| Preparation and Storage                        | Store in the dark at 2-8 degree C. Do not freeze. Avoid prolonged exposure to light.                                                                                                                                                                         |

### ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CD38 antibody | CD38 (NAD+ glycohydrolase) is a type II transmembrane glycoprotein able to induce activation, proliferation and differentiation of mature lymphocytes and mediate apoptosis of myeloid and lymphoid progenitor cells. Another role of CD38 is provided by enzymatic activity of its extracellular part. CD38 acts as NAD+ glycohydrolase converting NAD+ into ADP-ribose, as ADP-ribosyl cyclase producing cADPR and as cADPR hydrolase, thus affecting levels of calcium-mobilizing metabolites. ADPR produced by CD38 serves as an important second messenger of neutrophil and dendritic cell migration. |
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### NCBI AND UNIPROT INFORMATION

|                     |          |
|---------------------|----------|
| NCBI GI #           | 55977782 |
| NCBI GeneID         | 952      |
| UniProt Accession # | P28907   |

|                                  |                                                   |
|----------------------------------|---------------------------------------------------|
| NCBI Official Full Name          | ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1 |
| NCBI Official Synonym Full Names | CD38 molecule                                     |
| NCBI Official Symbol             | CD38                                              |
| NCBI Official Synonym Symbols    | ADPRC1; ADPRC 1                                   |
| NCBI Protein Information         | ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1 |
| UniProt Protein Name             | ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1 |
| UniProt Gene Name                | <b>CD38</b>                                       |
| UniProt Synonym Gene Names       | ADPRC 1; cADPr hydrolase 1                        |
| UniProt Entry Name               | CD38_HUMAN                                        |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd38-antibody-clone-hit2-flow-cytometry-elisa/128590>