

RecomAb™

## CD38 recombinant monoclonal antibody, clone HB7

Catalog # RAB00097      Size 200 ug

### Specification

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Description | Rabbit recombinant monoclonal antibody raised against human CD38.                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Antibody Species    | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Immunogen           | Original antibody is raised against human BJAB cell line.                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Reactivity          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Specificity         | This antibody binds to an epitope between amino acids 273-285 of human CD38, an approximately 45 kDa type II transmembrane protein, expressed on essentially all pre-B lymphocytes, plasma cells, and thymocytes. Also present on activated T lymphocytes, natural killer (NK) lymphocytes, myeloblasts, and erythroblasts. Bimodally expressed during B cell development, modulating from high in immature cells to low in intermediate ones and back to high on mature B cells. |
| Form                | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Purification        | Protein A affinity purification                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Isotype             | IgG, kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Recommend Usage     | Flow Cytometry (1 ug/mL)<br>Western Blot (1 ug/mL)<br>The optimal working dilution should be determined by the end user.                                                                                                                                                                                                                                                                                                                                                          |
| Storage Buffer      | In PBS, pH 7.2 (0.02% Proclin 300)                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Storage Instruction | Store at 4°C. For long term storage store at -20°C.<br>Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                                                                                                                                                                            |

### Applications

- Western Blot
- Flow Cytometry

## Gene Info — CD38

|                    |                                                                                                                                                                                                                  |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID      | <a href="#">952</a>                                                                                                                                                                                              |
| Protein Accession# | <a href="#">P28907</a>                                                                                                                                                                                           |
| Gene Name          | CD38                                                                                                                                                                                                             |
| Gene Alias         | T10                                                                                                                                                                                                              |
| Gene Description   | CD38 molecule                                                                                                                                                                                                    |
| Omim ID            | <a href="#">107270</a>                                                                                                                                                                                           |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                                                                                                                        |
| Gene Summary       | CD38 is a novel multifunctional ectoenzyme widely expressed in cells and tissues especially in leukocytes. CD38 also functions in cell adhesion, signal transduction and calcium signaling. [provided by RefSeq] |
| Other Designations | ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase CD38 antigen CD38 antigen (p45) cyclic ADP-ribose hydrolase                                                                                                      |

## Publication Reference

- [Reversal of endothelial dysfunction by nicotinamide mononucleotide via extracellular conversion to nicotinamide riboside.](#)

Mateuszuk Ł, Campagna R, Kutryb-Zajac B, Kuś K, Słomska EM, Smolenski RT, Chlopicki S.

Biochemical Pharmacology 2020 May; 8:178.

Application: WB, Human, HAEC cells

## Pathway

- [Calcium signaling pathway](#)
- [Hematopoietic cell lineage](#)
- [Metabolic pathways](#)
- [Nicotinate and nicotinamide metabolism](#)

## Disease

- [Cell Transformation](#)
- [Child Development Disorders](#)
- [Diabetes Mellitus](#)
- [Genetic Predisposition to Disease](#)
- [Leukemia](#)
- [Lupus Erythematosus](#)
- [Lymphoma](#)
- [Osteoporosis](#)