



Alexa Fluor® 700 anti-human CD38 Antibody

Catalog# / Size 356623 / 25 tests

356624 / 100 tests

Clone HB-7

Regulatory Status RUO

Workshop III 155

Other Names HB7, T10, ADP-ribosyl cyclase

Isotype Mouse IgG1, κ

Description CD38 is a 45 kD type II transmembrane glycoprotein also known as T10. It is an ADP-ribosyl

hydrolase expressed at variable levels on hematopoietic cells and in some non-hematopoietic tissues (such as brain, muscle, and kidney). In humans, it is expressed at high levels on plasma cells and activated T and B cells, natural killer (NK) lymphocytes, myeloblasts, and erythroblasts. By functioning as both a cyclase and a hydrolase, CD38 mediates lymphocyte activation, adhesion, and the metabolism of cADPR and NAADP. CD31 is the ligand of CD38.

Product Details

Verified Reactivity Human

Antibody Type Monoclonal
Host Species Mouse

Immunogen BJAB human B cell line.

Formulation Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)

Preparation The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 700

under optimal conditions.

Concentration Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration

and Expiration Lookup or Certificate of Analysis online tools.)

Storage & Handling The antibody solution should be stored undiluted between 2°C and 8°C, and protected from

prolonged exposure to light. Do not freeze.

Application FC - Quality tested

Recommended Usage Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric

 $\underline{analysis}.$ For flow cytometric staining, the suggested use of this reagent is 5 μ l per million cells in

100 μl staining volume or 5 μl per 100 μl of whole blood.

* Alexa Fluor® 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior

to using Alexa Fluor® 700 conjugate for flow cytometric analysis, please verify your flow

cytometer's capability of exciting and detecting the fluorochrome.

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Excitation Laser Red Laser (633 nm)

Product Citations

1. Chen L et al. 2018. Immunity. 49(3):464-476 . PubMed

2. Richert-Spuhler LE, et al. 2021. Cell Reports Medicine. 2(6):100322. PubMed

3. Hoffmann M, et al. 2016. PLoS Pathog. 12: 1005661. PubMed

4. Alomari N, et al. 2022. Viruses. 14:. PubMed

RRID AB 2566423 (BioLegend Cat. No. 356623)

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Antigen Details

Structure ADP-ribosyl cyclase, ectoenzyme, type II glycoprotein, 45 kD

Distribution T cells, B cells, NK-cells, myeloid, plasma, and dendritic cells

Function Ecto-ADP-ribosyl cyclase, calcium signaling, cell activation

Ligand/Receptor CD31, hyaluronic acid

Cell Type B cells, Dendritic cells, NK cells, Plasma cells, T cells

Biology Area Cell Adhesion, Cell Biology, Immunology

Molecular Family Adhesion Molecules, CD Molecules

Antigen References 1. Ferrero E, et al. 1999. J. Leukoc. Biol. 65:151.

2. Lund F, et al. 1995. Immunol. Today 16:469.

Gene ID 952

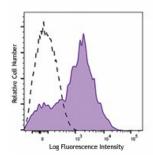
Related Protocols

Cell Surface Flow Cytometry Staining Protocol

Other Formats

Purified anti-human CD38, PE anti-human CD38, APC anti-human CD38, PE/Cyanine7 anti-human CD38, FITC anti-human CD38, Brilliant Violet 510[™] anti-human CD38, PerCP/Cyanine5.5 anti-human CD38, APC/Cyanine7 anti-human CD38, Brilliant Violet 421[™] anti-human CD38, Brilliant Violet 650[™] anti-human CD38, PerCP anti-human CD38, Alexa Fluor® 700 anti-human CD38, APC/Fire[™] 750 anti-human CD38, PerCP anti-human CD38, PerCP anti-human CD38, Alexa Fluor® 647 anti-human CD38, Alexa Fluor® 488 anti-human CD38, TotalSeq[™]-A0410 anti-human CD38, TotalSeq[™]-B0410 anti-human CD38, Brilliant Violet 605[™] anti-human CD38, TotalSeq[™]-C0410 anti-human CD38, APC/Fire[™] 810 anti-human CD38

Product Data



Human peripheral blood lymphocytes were stained with CD38 (clone HB-7) Alexa Fluor® 700 (filled histogram) or mouse IgG1, κ Alexa Fluor® 700 isotype control (open histogram).

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