



GMP PE/Dazzle™ 594 anti-human CD38 Antibody

Catalog# / Size 260260 / 100 tests

Clone HIT2 Workshop III 155

Other Names 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, muscles, and kidney). In humans, it is expressed at high levels on plasma cells and activated T and B cells. 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

Reactivity Human

Monoclonal Antibody Type

Host Species Mouse

Formulation Phosphate-buffered solution, pH 7.2, containing True-Stain Monocyte Blocker™, 0.09% sodium

azide and 0.2% (w/v) BSA (origin USA) and a stabilizer.

Preparation The antibody was purified by affinity chromatography and conjugated with PE/Dazzle™ 594 under

optimal conditions.

Concentration 100 µg/mL

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

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

analysis. For flow cytometric staining, the suggested use of this reagent is 5 µL per million cells in 100 μL staining volume or 5 μL per 100 μL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.

Excitation Laser Blue Laser (488 nm)

Green Laser (532 nm)/Yellow-Green Laser (561 nm)

Application Notes Additional reported applications (for the relevant formats) include: immunohistochemical staining of

acetone-fixed frozen tissue sections⁶ and spatial biology (IBEX)^{10,11}.

Application References (PubMed link indicates

BioLegend citation)

1. Kishimoto T, et al. Eds. 1997. Leucocyte Typing VI. Garland Publishing Inc. London.

2. Dieu M. 1998. J. Exp. Med. 188:373.

3. Esser M, et al. 2001. J. Virol. 75:6173.

4. Jeannin P, et al. 1999. J. Immunol. 162:2044.

5. Kapsogeorgou EK, et al. 2001. J. Immunol. 166:3107.

6. van der Voort R, et al. 1997. J. Exp. Med. 185:2121. (IHC)

7. Bende RJ, et al. 2003. Am. J. Pathol. 162:105. 8. Lehner M, et al. 2008. J. Leukoc. Biol. 83:883. PubMed 9. Yoshino N, et al. 2000. Exp. Anim. (Tokyo) 49:97. (FC)

10. Radtke AJ, et al. 2020. Proc Natl Acad Sci USA. 117:33455-33465. (SB) PubMed

11. Radtke AJ, et al. 2022. Nat Protoc. 17:378-401. (SB) PubMed

Disclaimer

GMP RUO Flow Cytometry Antibodies. BioLegend GMP RUO fluorophore conjugated antibodies are manufactured in a dedicated GMP facility and compliant with ISO 13485:2016. For research use only. Not for use in diagnostic or therapeutic procedures. Our processes include:

- · Batch-to-batch consistency
- · Material traceability
- · Documented procedures
- Documented employee training
- Equipment maintenance and monitoring records
- · Lot-specific certificates of analysis
- Quality audits per ISO 13485:2016
- QA review of released products

Antigen Details

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

Distribution T cells, B cells, NK, 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 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

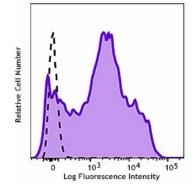
Related Protocols

Cell Surface Flow Cytometry Staining Protocol

Other Formats

APC anti-human CD38, FITC anti-human CD38, PE anti-human CD38, PE/Cyanine5 anti-human CD38, Purified anti-human CD38, Alexa Fluor® 488 anti-human CD38, Alexa Fluor® 647 anti-human CD38, PE/Cyanine7 anti-human CD38, Biotin anti-human CD38, PerCP anti-human CD38, PerCP/Cyanine5.5 anti-human CD38, Alexa Fluor® 700 anti-human CD38, Brilliant Violet 421™ anti-human CD38, Brilliant Violet 711™ anti-human CD38, Brilliant Violet 785™ anti-human CD38, Brilliant Violet 605™ anti-human CD38, APC/Cyanine7 anti-human CD38, Purified anti-human CD38 (Maxpar® Ready), PE/Dazzle™ 594 anti-human CD38, Brilliant Violet 510™ anti-human CD38, TotalSeq™-C0389 anti-human CD38, APC/Fire™ 750 anti-human CD38, TotalSeq™-B0389 anti-human CD38, APC/Fire™ 810 anti-human CD38, Spark NIR™ 685 anti-human CD38 Antibody, TotalSeq™-D0389 anti-human CD38, GMP PE anti-human CD38, GMP FITC anti-human CD38, Pacific Blue™ anti-human CD38, GMP APC/Fire™ 750 anti-human CD38

Product Data



Typical results from human peripheral blood lymphocytes stained either with HIT2 PE/Dazzle™ 594 at 5 µL/test (solid line) or with an isotype control (dotted line).

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