



GMP Pacific Blue™ anti-human CD38 Antibody

Catalog# / Size 260336 / 100 tests

Clone HIT2 Workshop III 155

T10, ADP-ribosyl cyclase Other Names

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

Reported Reactivity Chimpanzee, Horse, Cow

Antibody Type Monoclonal

Host Species Mouse

Formulation Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin

USA) and a stabilizer

The antibody was purified by affinity chromatography and conjugated with Pacific Blue™ under **Preparation**

optimal conditions.

Concentration 400 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

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

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.

* Pacific Blue™ has a maximum emission of 455 nm when it is excited at 405 nm. Prior to using Pacific Blue™ conjugate for flow cytometric analysis, please verify your flow cytometer's capability

of exciting and detecting the fluorochrome.

Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation.

View full statement regarding label licenses

Violet Laser (405 nm) **Excitation Laser**

Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections⁶ and spatial biology (IBEX)^{10,11}. Application Notes

Application References

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

(PubMed link indicates BioLegend citation)

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
- Yoshino N, et al. 2000. Exp. Anim. (Tokyo) 49:97. (FC)
 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

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

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

Gene ID 952

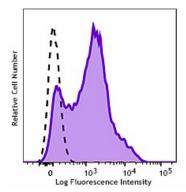
Related Protocols

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, PÉ/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™ antihuman 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, TotalSeg™-A0389 anti-human CD38, TotalSeg™-C0389 anti-human CD38, APC/Fire™ 750 antihuman 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, GMP PE/Dazzle™ 594 anti-human CD38, GMP APC anti-human CD38, GMP PE/Cyanine7 anti-human CD38, Spark Blue™ 515 anti-human CD38

Product Data



Typical results from human peripheral blood lymphocytes stained either with HIT2 Pacific Blue™ used at 5 µL/test (filled histogram) or with an isotype control (open histogram).

For research use only. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses.

8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587