

PerCP/Cyanine5.5 anti-human CD38 Antibody

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|--------------------------|---|
| Catalog# / Size | 303521 / 25 tests 303522 / 100 tests |
| Clone | HIT2 |
| Regulatory Status | RUO |
| 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

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|---|---|
| Verified 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 BSA (origin USA) |
| Preparation | The antibody was purified by affinity chromatography, and conjugated with PerCP/Cyanine5.5 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 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. * PerCP/Cyanine5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm. |
| Excitation Laser | Blue Laser (488 nm) |
| Application Notes | Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections ⁶ and spatial biology (IBEX) ^{10,11} . |
| Additional Product Notes | BioLegend is in the process of converting the name PerCP/Cy5.5 to PerCP/Cyanine5.5. The dye molecule remains the same, so you should expect the same quality and performance from our PerCP/Cyanine5.5 products. Contact Technical Service if you have any questions. |
| Application References | <ol style="list-style-type: none"> 1. Kishimoto T, <i>et al.</i> Eds. 1997. Leucocyte Typing VI. Garland Publishing Inc. London. 2. Dieu M. 1998. <i>J. Exp. Med.</i> 188:373. 3. Esser M, <i>et al.</i> 2001. <i>J. Virol.</i> 75:6173. 4. Jeannin P, <i>et al.</i> 1999. <i>J. Immunol.</i> 162:2044. 5. Kapsogeorgou EK, <i>et al.</i> 2001. <i>J. Immunol.</i> 166:3107. 6. van der Voort R, <i>et al.</i> 1997. <i>J. Exp. Med.</i> 185:2121. (IHC) 7. Bende RJ, <i>et al.</i> 2003. <i>Am. J. Pathol.</i> 162:105. |
| (PubMed link indicates BioLegend citation) | |

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Product Citations

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RRID

AB_893316 (BioLegend Cat. No. 303521)
 AB_893314 (BioLegend Cat. No. 303522)

Antigen Details

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|---------------------------|---|
| 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, <i>et al.</i> 1999. <i>J. Leukoc. Biol.</i> 65:151. 2. Lund F, <i>et al.</i> 1995. <i>Immunol. Today</i> 16:469. |
| Gene ID | 952 |

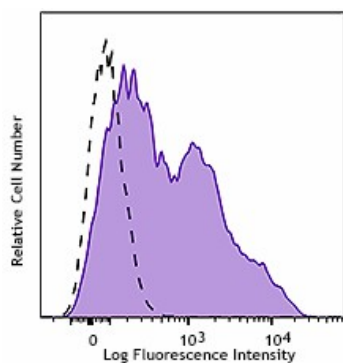
Related Protocols

[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™-A0389 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

Product Data



Human peripheral blood lymphocytes were stained with CD38 (clone HIT2) PerCP/Cyanine5.5 (filled histogram) or mouse IgG1, ? PerCP/Cyanine5.5 isotype control (open histogram).

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