

Product Data Sheet

PE/Cy5 anti-human CD38

Catalog # / Size: 303507 / 25 tests
303508 / 100 tests

Clone: HIT2

Isotype: Mouse IgG1, κ

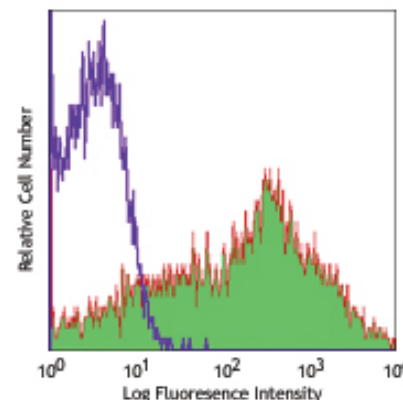
Workshop Number: III 155

Reactivity: Human, **Cross-Reactivity:** Chimpanzee

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE/Cy5 under optimal conditions. The solution is free of unconjugated PE/Cy5 and unconjugated antibody.

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

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human peripheral blood lymphocytes stained with HIT2 PE/Cy5

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 μ l to 5 μ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 μ l staining volume or per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at www.biolegend.com/testsize regarding the test size change.

Application Notes: Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections.

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Application References:

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)

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.

Antigen References:

1. Ferrero E, et al. 1999. *J. Leukoc. Biol.* 65:151.
2. Lund F, et al. 1995. *Immunol. Today* 16:469.

Related Products:

Product
PE anti-human CD31
PE/Cy5 Mouse IgG1, κ Isotype Ctrl
Cell Staining Buffer
RBC Lysis Buffer (10X)
Human TruStain FcX™ (Fc Receptor Blocking Solution)

Clone
WM59
MOPC-21

Application
FC
FC, ICFC
FC, ICC, ICFC
FC, ICFC
FC, ICC, ICFC



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