

**PE anti-human CD38**

**Catalog # / Size:** 2117530 / 100 tests  
2117525 / 25 tests

**Clone:** HIT2

**Isotype:** Mouse IgG1, κ

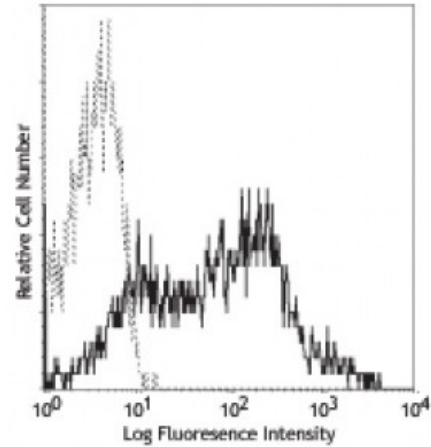
**Reactivity:** Human

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

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

**Workshop Number:** III 155

**Concentration:** Lot-specific



Human peripheral blood lymphocytes stained with HIT2 PE

**Applications:**

**Applications:** Flow Cytometry

**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 microL to 5 microL per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections.<sup>6</sup>

- 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.

