

**PE/Cy7 anti-human TCR  $\gamma/\delta$**

**Catalog # / Size:** 2256105 / 25 tests  
2256110 / 100 tests

**Clone:** B1

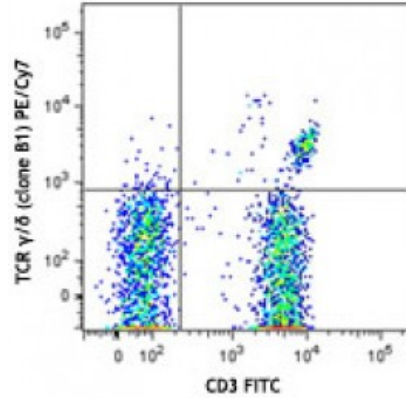
**Isotype:** Mouse IgG1,  $\kappa$

**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody.

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

**Concentration:** Lot-specific

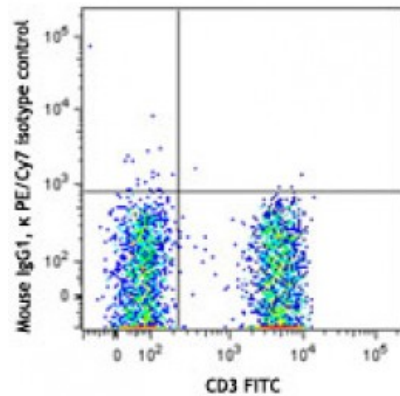


Human peripheral blood lymphocytes were stained with CD3 FITC and TCR  $\gamma/\delta$  (clone B1) PE/Cy7 (top) or mouse IgG1,  $\kappa$  PE/Cy7 isotype control (bottom).

**Applications:**

**Applications:** Flow Cytometry

**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 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.



**Application Notes:** Clone B1 is also known as clone B1.1.

Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen sections<sup>3</sup> and paraffin-embedded sections<sup>5</sup>, and *in vitro* blocking. The LEAF™ purified antibody (Endotoxin <0.1 EU/ $\mu$ g, Azide-Free, 0.2  $\mu$ m filtered) is recommended for functional assays (Cat. No. 100208).

- Application References:**
- Rodriguez-Gago M, *et al.* 2001. *Transplantation*. 72:503.
  - Lehmann FS, *et al.* 2002. *Am. J. Physiol. Gastrointest. Liver. Physiol.* 283:G481. (FC)
  - Bordignon M, *et al.* 2008. *Mol. Med. Rep.* 1:485. (IHC)
  - Conrad M, *et al.* 2007. *Cytom. Part A* 71A:925. (FC)
  - Pollinger B, *et al.* 2011. *J. Immunol.* 186:2602. (IHC)
  - Correia DV, *et al.* 2011. *Blood*. 118:992. (Block)
  - Laurent AJ, *et al.* 2014. *PLoS One*. 9:103683. [PubMed](#)

**Description:** T cell receptor (TCR) is a heterodimer consisting of an  $\alpha$  and a  $\beta$  chain (TCR  $\alpha/\beta$ ) or a  $\gamma$  and a  $\delta$  chain (TCR  $\gamma/\delta$ ). TCR  $\gamma/\delta$  is involved in the recognition of certain bacterial, self-CD1 molecule, and tumor antigens bound to MHC class I. The  $\gamma/\delta$  TCR associates with CD3 and is expressed on a subset of T cells found in the thymus, the intestinal epithelium, and the peripheral lymphoid tissues and peritoneum. Most  $\gamma/\delta$  T cells are CD4<sup>-</sup>/CD8<sup>-</sup>, some are CD8<sup>+</sup>. T cells expressing the  $\gamma/\delta$  TCR have been shown to play a role in oral tolerance, innate immune response for some tumor cells, and autoimmune disease. It has been reported that  $\gamma/\delta$  T cells also play a principal role in antigen presentation.

**Antigen**  
**References:**

1. Lanier LL, *et al.* 1987. *J. Clin. Immunol.* 7:429.
2. Spencer J, *et al.* 1989. *Eur. J. Immunol.* 19:1335.
3. Uyemura K, *et al.* 1991. *J. Exp. Med.* 174:683.
4. Spada FM, *et al.*