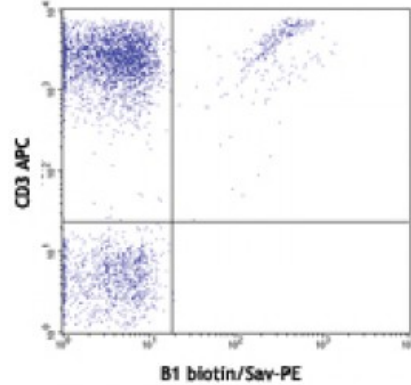


Biotin anti-human TCR γ/δ

Catalog # / Size: 2256030 / 100 μ g
Clone: B1
Isotype: Mouse IgG1, κ
Reactivity: Human
Preparation: The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration: 0.5



Human peripheral blood lymphocytes stained with CD3 APC and biotinylated B1, followed by Sav-PE

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 ≤ 2.0 microg per million cells in 100 microL volume. 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 sections³ and paraffin-embedded sections⁵, and *in vitro* blocking. The LEAF™ purified antibody (Endotoxin <0.1 EU/ μ g, Azide-Free, 0.2 μ 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 α and a β chain (TCR α/β) or a γ and a δ chain (TCR γ/δ). TCR γ/δ is involved in the recognition of certain bacterial, self-CD1 molecule, and tumor antigens bound to MHC class I. The γ/δ 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 γ/δ T cells are CD4⁺/CD8⁻, some are CD8⁺. T cells expressing the γ/δ 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 γ/δ 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.*