SONY

Product Data Sheet

FITC anti-human TCR γ/δ

Catalog # / Size: 2256035 / 25 tests
2256040 / 100 tests

Clone: B1

Isotype: Mouse IgG1, κ

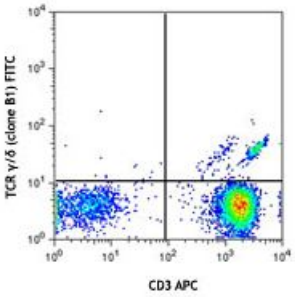
Reactivity: Human, Non-human primate, Other

Preparation: The antibody was purified by affinity chromatography, and conjugated with FITC under optimal conditions.

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

Workshop Number: P PR-63; BP 473; P P008

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with CD3 APC and TCR γ/δ (clone B1) FITC (top) or mouse IgG1, κ FITC isotype control (bottom).

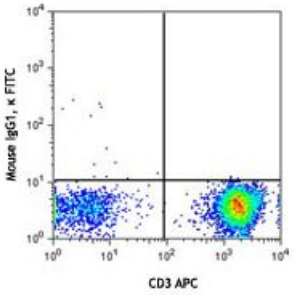
Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 µl to 5 µl per test**. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 µl staining volume or per 100 µl 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 sections3 and paraffin-embedded sections5, and *in vitro* blocking. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 100208).



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Application References:

1. Rodriguez-Gago M, *et al.* 2001. *Transplantation.* 72:503.
2. Lehmann FS, *et al.* 2002. *Am. J. Physiol. Gastrointest. Liver. Physiol.* 283:G481. (FC)
3. Bordignon M, *et al.* 2008. *Mol. Med. Rep.* 1:485. (IHC)
4. Conrad M, *et al.* 2007. *Cytom. Part A* 71A:925. (FC)
5. Pollinger B, *et al.* 2011. *J. Immunol.* 186:2602. (IHC)
6. Correia DV, *et al.* 2011. *Blood.* 118:992. (Block)
7. 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.* 2000. *J. Exp. Med.* 191:907.

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