Product Data Sheet

APC/Fire™ 750 anti-human TCR y/δ

Catalog # / 2256140 / 100 tests

Size: 2256135 / 25 tests

Clone: B1

Isotype: Mouse IgG1, κ

 $\label{eq:mmunogen: Purified human $\beta 2$-microglobulin} \label{eq:mmunogen: Purified human $\beta 2$-microglobulin}$

Reactivity: Human, Non-human primate, Other

Preparation: The antibody was purified by affinity

chromatography and conjugated with

APC/Fire&trade

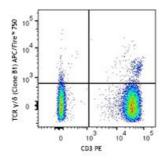
Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide and

0.2% (w/v) BSA (origin USA).

Workshop Number: 750 under optimal conditions.

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with CD3 PE and TCR γ/δ (clone B1) APC/FireTM 750 (top) or mouse IgG1, κ APC/FireTM 750 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 μ l per million cells in 100 μ l staining volume or 5 μ l per

100 μl of whole blood.

* APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum

emission of 787 nm.

Application Notes:

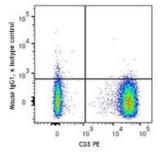
Clone B1 is also known as clone B1.1.

Additional reported applications (for

the relevant formats)

include: immunohistochemical staining of acetone-fixed frozen sections³ and paraffin-embedded sections⁵, and *in vitro* blocking. The Ultra-LEAF™ purified antibody (Endotoxin < 0.01 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for

highly sensitive assays (Cat. Nos. 331235 and 331236).



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.