Brilliant Violet 421™ anti-human TCR γ/δ

Catalog # / Size: 2256085 / 25 tests

2256090 / 100 tests

Clone:

Isotype: Mouse IgG1, κ

Reactivity: Human

Preparation: The antibody was purified by affinity

> chromatography and conjugated with Brilliant Violet 421™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 421™ and

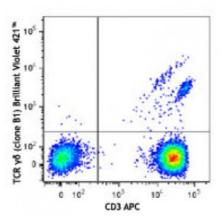
unconjugated antibody.

Phosphate-buffered solution, pH 7.2, Formulation:

containing 0.09% sodium azide and BSA

(origin USA).

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with CD3 APC and TCR γ/δ (clone B1) Brilliant Violet 421™ (top) or mouse IgG1, κ Brilliant Violet 421™ isotype control (bottom).

Applications:

Applications: Flow Cytometry

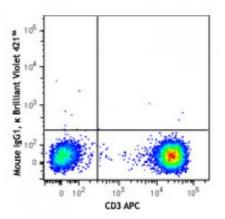
Recommended

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.

Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421[™] is a trademark of Sirigen Group Ltd.

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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 $^{\text{TM}}$ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 100208).

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.