

Brilliant Violet 421™ anti-mouse TCR Vα2

Catalog # / Size: 1239125 / 50 µg

Clone: B20.1

Isotype: Rat IgG2a, λ

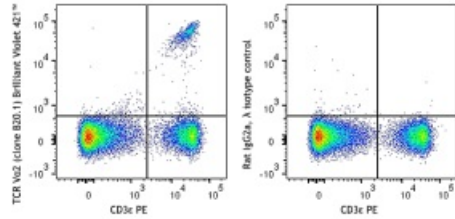
Immunogen: Soluble TCR from mouse CTL clone KB5-C20

Reactivity: Mouse

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.

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

Concentration: 0.2 mg/ml



C57BL/6 mouse splenocytes were stained with CD3ε PE and anti-mouse TCR Vα2 (clone B20.1) Brilliant Violet 421™ (left) or rat IgG2a Brilliant Violet 421™ isotype control (right).

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 ≤0.25 µg per million cells in 100 µl volume. 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.

This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.

Application Notes: The B20.1 antibody recognizes most members of the Vα2 TCR subfamily in mice having the a, b, and c haplotypes.

- Application References:**
1. Pircher H, *et al.* 1992. *Eur. J. Immunol.* 22:399.
 2. Gregoire C, *et al.* 1991. *P. Natl. Acad. Sci. USA* 88:8077.
 3. Kao C, *et al.* 2005. *Int. Immunol.* 17:1607. [PubMed](#)
 4. Steptoe RJ, *et al.* 2007. *J. Immunol.* 178:2094. [PubMed](#)
 5. Rao RR, *et al.* 2012. *Immunity.* 36:374. [PubMed](#).

Description: The TCR alpha (α) chain complexes with the TCR beta (β) chain to form the T cell receptor in 95% of T cells, whereas the remaining 5% of T cells express gamma and delta chains (γ/δ). TCR V α 2 is a distinct TCR subfamily found in mice having the a, b, and c haplotypes.

Antigen 1. Kubo RT, *et al.* 1989. *J. Immunol.* 142:2736.
References: 2. Pircher H, *et al.* 1992. *Eur. J. Immunol.* 22:399.