

PE/Dazzle™ 594 anti-mouse TCR Vα2

Catalog # / Size: 1239135 / 25 µg
1239140 / 100 µg

Clone: B20.1

Isotype: Rat IgG2a, λ

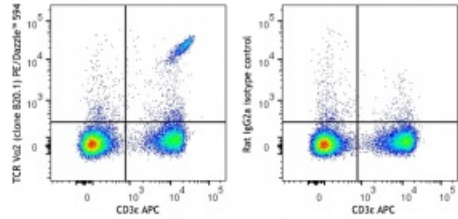
Immunogen: Soluble TCR from mouse CTL clone KB5-C20

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with PE/Dazzle™ 594 under optimal conditions. The solution is free of unconjugated PE/Dazzle™ 594 and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.2 mg/ml



C57BL/6 mouse splenocytes were stained with CD3ε APC and anti-mouse TCR Vα2 (clone B20.1) PE/Dazzle™ 594 (left) or rat IgG2a PE/Dazzle™ 594 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 ≤ 0.125 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

* PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.

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 Vα2 is a distinct TCR subfamily found in mice having the a, b, and c haplotypes.

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