SONY

Product Data Sheet

Pacific Blue™ anti-mouse TCR Vα2

Catalog # / Size: 1239075 / 25 µg
1239080 / 100 µg

Clone: B20.1

Isotype: Rat IgG2a, λ

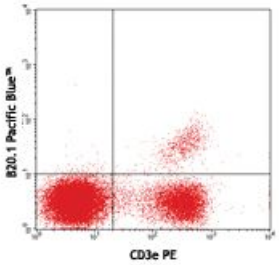
Immunogen: Soluble TCR from mouse CTL clone KB5-C20

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with Pacific Blue™ under optimal conditions. The solution is free of unconjugated Pacific Blue™.

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

Concentration: 0.5



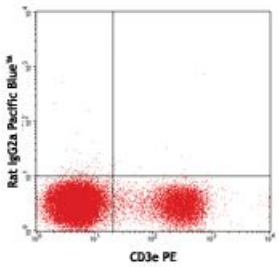
C57BL/6 mouse splenocytes stained with B20.1 Pacific Blue™ and CD3e PE

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 ≤0.06 microg per million cells in 100 microL volume or 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* Pacific Blue™ has a maximum emission of 455 nm when it is excited at 405 nm. Prior to using Pacific Blue™ conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.



C57BL/6 mouse splenocytes stained with rat IgG2a, λ Pacific Blue™ isotype control and CD3e PE

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

Description: The TCR α (α) chain complexes with the TCR β (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.