

Product Data Sheet

Pacific Blue™ anti-mouse TCR Vα2

Catalog # / Size: 127815 / 25 µg
127816 / 100 µg

Clone: B20.1

Isotype: Rat IgG2a, λ

Immunogen: Soluble TCR from mouse CTL clone KB5-C20

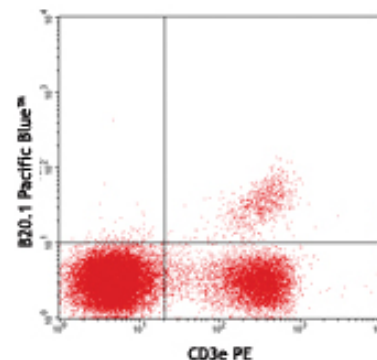
Reactivity: Mouse

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 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



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

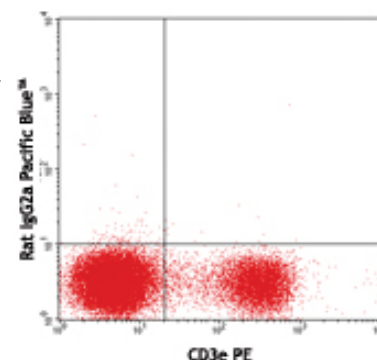
Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤0.06 µg per million cells in 100 µl volume or 100 µl 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.

** Pacific Blue™ is a registered trademark of Molecular Probes, Inc. Pacific Blue™ dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents.



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 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.

Related Products:

Product
 Cell Staining Buffer
 RBC Lysis Buffer (10X)
 TruStain fcX™ (anti-mouse CD16/32)

Clone

93

Application

FC, ICC, ICFC
 FC, ICFC
 FC



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