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# Product Data Sheet

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## PerCP/Cy5.5 anti-mouse TCR V $\alpha$ 2

**Catalog # /** 1239070 / 100  $\mu$ g  
**Size:** 1239065 / 25  $\mu$ g

□ BALB/c splenocytes stained with B20.1 PerCP/Cy5.5

**Clone:** B20.1

**Isotype:** Rat IgG2a,  $\lambda$

**Immunogen:** Soluble TCR from mouse CTL clone KB5-C20

**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with PerCP/Cyanine5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cyanine5.5 and unconjugated antibody.

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

**Concentration:** 0.2

## 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  $\mu$ l per million cells or 5  $\mu$ l per 100  $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

\* PerCP/Cyanine5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.

**Application Notes:** The B20.1 antibody recognizes most members of the V $\alpha$ 2 TCR subfamily in mice having the a, b, and c haplotypes.

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

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**Description:** The TCR  $\alpha$  ( $\alpha$ ) chain complexes with the TCR  $\beta$  ( $\beta$ ) chain to form the T cell receptor in 95% of T cells, whereas the remaining 5% of T cells express gamma and delta chains ( $\gamma/\delta$ ). TCR V $\alpha$ 2 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