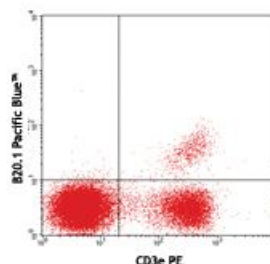


## Pacific Blue™ anti-mouse TCR Vα2

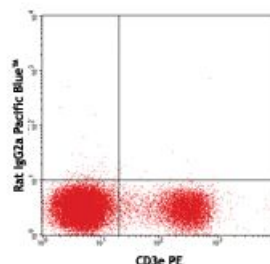
<b>Catalog # /</b>	1239075 / 25 µg
<b>Size:</b>	1239080 / 100 µg
<b>Clone:</b>	B20.1
<b>Isotype:</b>	Rat IgG2a, λ
<b>Immunogen:</b>	Soluble TCR from mouse CTL clone KB5-C20
<b>Reactivity:</b>	Mouse
<b>Preparation:</b>	The antibody was purified by affinity chromatography, and conjugated with Pacific Blue™ under optimal conditions.
<b>Formulation:</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Workshop Number:</b>	IV M141
<b>Concentration:</b>	0.5



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

## Applications:

<b>Applications:</b>	Flow Cytometry
<b>Recommended Usage:</b>	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 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.



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

\* 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.

<b>Application Notes:</b>	The B20.1 antibody recognizes most members of the Vα2 TCR subfamily in mice having the a, b, and c haplotypes.
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<b>Application References:</b>	<ol style="list-style-type: none"> <li>1. Pircher H, <i>et al.</i> 1992. <i>Eur. J. Immunol.</i> 22:399.</li> <li>2. Gregoire C, <i>et al.</i> 1991. <i>P. Natl. Acad. Sci. USA</i> 88:8077.</li> <li>3. Kao C, <i>et al.</i> 2005. <i>Int. Immunol.</i> 17:1607. <a href="#">PubMed</a></li> <li>4. Steptoe RJ, <i>et al.</i> 2007. <i>J. Immunol.</i> 178:2094. <a href="#">PubMed</a></li> <li>5. Rao RR, <i>et al.</i> 2012. <i>Immunity.</i> 36:374. <a href="#">PubMed</a>.</li> </ol>
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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** 1. Kubo RT, *et al.* 1989. *J. Immunol.* 142:2736.  
**References:** 2. Pircher H, *et al.* 1992. *Eur. J. Immunol.* 22:399.