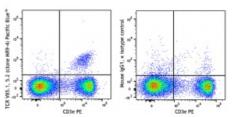
## Pacific Blue<sup>™</sup> anti-mouse TCR Vβ5.1, 5.2

Catalog # / Size:	1297580 / 100 μg 1297575 / 25 μg
Clone:	MR9-4
lsotype:	Mouse IgG1, к
Immunogen:	Murine T cell hybridoma 2HB51.8
<b>Reactivity:</b>	Mouse
Preparation:	The antibody was purified by affinity chromatography and conjugated with Pacific Blueâ,¢ under optimal conditions. The solution is free of unconjugated Pacific Blueâ,¢.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.5 mg/ml



C57BL/6 splenocytes were stained with CD3 $\epsilon$  PE and TCR V $\beta$ 5.1, 5.2 (clone MR9-4) Pacific Blue<sup>TM</sup> (left) or Mouse IgG1,  $\kappa$ Pacific Blue<sup>TM</sup> 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 $\leq 0.5 \ \mu$ g per million cells in 100 $\mu$ l volume. It is recommended that the reagent be titrated for optimal performance for each application.
	* Pacific Blue <sup>™</sup> has a maximum emission of 455 nm when it is excited at 405 nm. Prior to using Pacific Blue <sup>™</sup> conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.
Application Notes:	Additional reported applications (for the relevant formats) include: Induction of proliferation of V $\beta$ 5.1 <sup>+</sup> and V $\beta$ 5.2 <sup>+</sup> T cells <sup>2, 3</sup> and <i>in vivo</i> depletion of V $\beta$ 5 <sup>+</sup> T cells <sup>4</sup> .
Application References:	<ol> <li>Marrack P, et al. 2008. Annu. Rev. Immunol. 26:171.</li> <li>Sim GK and Augustin AA. 1985. Cell 42:89.</li> <li>Mami-Chouaib F, et al. 2002. Immunol. Rev. 188:114.</li> </ol>
Description:	V $\beta$ 5.1 and 5.2 T cell receptor (TCR V $\beta$ 5.1, 5.2) are variants of TCR $\beta$ chain that, along with TCR $\alpha$ chain, forms the TCR heterodimer. In association with the CD3 complex, TCR $\alpha/\beta$ is responsible for antigen recognition in the MHC-Peptide complex and the initiation of T cell-mediated immune responses.
Antigen References:	1. Marrack P, <i>et al.</i> 2008. <i>Annu. Rev. Immunol.</i> 26:171. 2. Sim GK and Augustin AA. 1985. <i>Cell</i> 42:89. 3. Mami-Chouaib F, <i>et al.</i> 2002. <i>Immunol. Rev.</i> 188:114.

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