

**PE/Cy7 anti-mouse TCR Vβ5.1, 5.2**

**Catalog # / Size:** 1297535 / 25 µg  
1297540 / 100 µg

**Clone:** MR9-4

**Isotype:** Mouse IgG1, κ

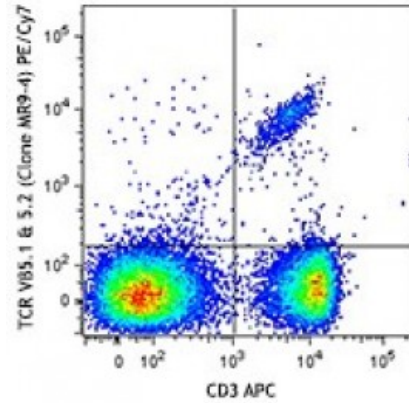
**Immunogen:** Murine T cell hybridoma 2HB51.8

**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody.

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

**Concentration:** 0.5



C57BL/6 splenocytes were stained with CD3 APC and TCR Vβ5.1, 5.2 (clone MR9-4) PE/Cy7 (top) or mouse IgG1, κ PE/Cy7 isotype control (bottom).

**Applications:**

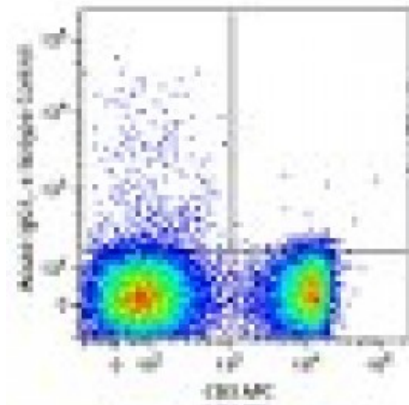
**Applications:** Flow Cytometry

**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 ≤0.5 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** Additional reported applications (for the relevant formats) include: Induction of proliferation of Vβ5.1<sup>+</sup> and Vβ5.2<sup>+</sup> T cells<sup>2, 3</sup> and *in vivo* depletion of Vβ5<sup>+</sup> T cells<sup>4</sup>.

**Application References:**

1. Kanagawa O, *et al.* 1991. *J. Immunol.* 147:1307. (FC)
2. Kanagawa O, *et al.* 1992. *J. Immunol.* 149:9. (Activ)
3. Woodland DL, *et al.* 1993. *J. Exp. Med.* 177:433. (Activ)
4. Gelber C, *et al.* 1992. *Cancer Res.* 52:6507. (Deplete)



**Description:** Vβ5.1 and 5.2 T cell receptor (TCR Vβ5.1, 5.2) are variants of TCR β chain that, along with TCR α chain, forms the TCR heterodimer. In association with the CD3 complex, TCR α/β is responsible for antigen recognition in the MHC-Peptide complex and the initiation of T cell-mediated immune responses.

**Antigen References:**

1. Marrack P, *et al.* 2008. *Annu. Rev. Immunol.* 26:171.
2. Sim GK and Augustin AA. 1985. *Cell* 42:89.
3. Mami-Chouaib F, *et al.* 2002. *Immunol. Rev.* 188:114.