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Product Data Sheet

PE anti-mouse TCR Vβ5.1, 5.2

Catalog # / Size: 139503 / 25 µg
139504 / 100 µg

Clone: MR9-4

Isotype: Mouse IgG1, κ

Immunogen: Murine T cell hybridoma 2HB51.8

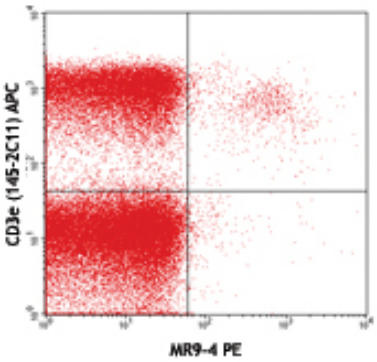
Reactivity: Mouse

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

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

Concentration: 0.2 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 splenocytes stained with CD3e (145-2C11) APC and MR9-4 PE

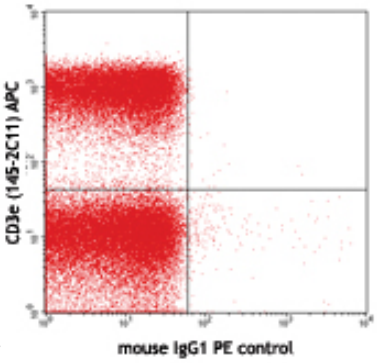
Applications:

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 ≤0.25 µg per million cells in 100 µl 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^{+} and Vβ5.2^{+} T cells[2, 3] and *in vivo* depletion of Vβ5^{+} T cells[4].

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)



C57BL/6 splenocytes stained with CD3e (145-2C11) APC and mouse IgG1 PE isotype control

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.

Related Products:

Product	Clone	Application
PE Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
TruStain fcX™ (anti-mouse CD16/32)	93	FC

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