

PE anti-mouse TCR V β 8.1, 8.2

Catalog # / Size: 140103 / 25 μ g
140104 / 100 μ g

Clone: MR5-2

Isotype: Mouse IgG2a, κ

Immunogen: H-Y specific TH Clone OI6

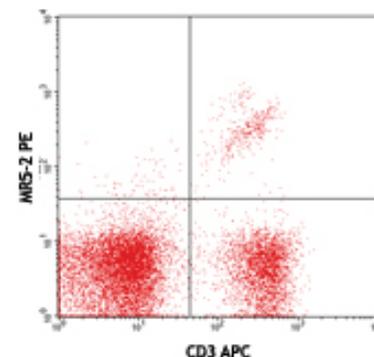
Reactivity: Mouse

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.**



BALB/c splenocytes stained with MR5-2 PE and CD3 APC

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 ≤ 1.0 μ g per million cells in 100 μ l 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 V β 8.1⁺ and V β 8.2⁺ T cells^{1,2}.

Application References: 1. Kanagawa OJ. 1988. *J. Immunol. Methods* 110:169. (Activ)
2. Denkers EY, et al. 1986. *J. Immunol.* 156:1089. (Activ)

Description: V β 8 T cell receptor (TCR V β 8) subfamily has three members, V β 8.1, 8.2, and 8.3. These subfamily members are variants of the TCR β chain that along with the TCR α chain forms the TCR heterodimer, responsible for the recognition of peptides presented by the MHC molecules. Murine V β 8⁺ T cells recognize the superantigen staphylococcal enterotoxin B (SEB); *in vivo* administration of SEB results in the negative selection of V β 8⁺ cells in the thymus. V β 8 is one of the most frequently found β chains on the infiltrating T cells in the brain of mice with experimental autoimmune encephalomyelitis (EAE), and on the T cells response to *Toxoplasma gondii*.

Antigen References: 1. Marrack P, et al. 2008. *Annu. Rev. Immunol.* 26:171.
2. Acha-Orbea H and MacDonald HR. 1995. *Annu. Rev. Immunol.* 13:459.
3. Sim GK and Augustin AA. 1985. *Cell* 42:89.
4. Mami-Chouaib F, et al. 2002. *Immunol. Rev.* 188:114.

Related Products:

Product	Clone	Application
RBC Lysis Buffer (10X)		FC, ICFC
Cell Staining Buffer		FC, ICC, ICFC
PE Mouse IgG2a, κ Isotype Ctrl	MOPC-173	FC, ICFC
TruStain fcX™ (anti-mouse CD16/32)	93	FC



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