

## Purified anti-mouse TCR V $\beta$ 5.1, 5.2

**Catalog # / Size:** 139502 / 100  $\mu$ g

**Clone:** MR9-4

**Isotype:** Mouse IgG1,  $\kappa$

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

**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography.

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

**Concentration:** 0.5 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C.

## 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  $\leq 0.25$   $\mu$ g per million cells in 100  $\mu$ 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 $\beta$ 5.1<sup>+</sup> and V $\beta$ 5.2<sup>+</sup> T cells<sup>2,3</sup> and *in vivo* depletion of V $\beta$ 5<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:** 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, *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**

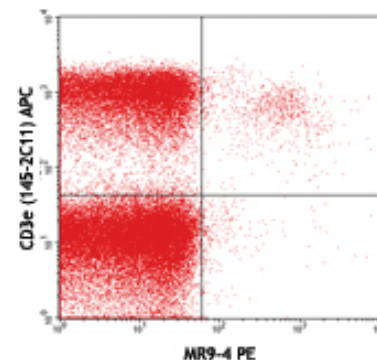
Purified Mouse IgG1,  $\kappa$  Isotype Ctrl  
 Cell Staining Buffer  
 RBC Lysis Buffer (10X)

**Clone**

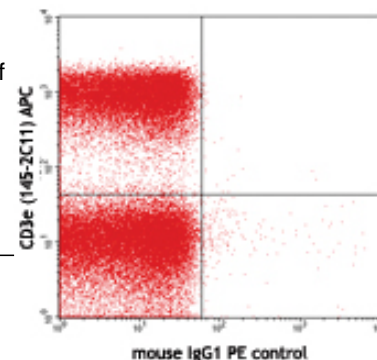
MOPC-21

**Application**

FC, ICFC, ICC, IF, IHC, IP, WB  
 FC, ICC, ICFC  
 FC, ICFC



C57BL/6 splenocytes stained with CD3e (145-2C11) APC and purified MR9-4 conjugated with PE



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



For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.



\*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, [www.biolegend.com/ordering#license](http://www.biolegend.com/ordering#license)). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.