

APC anti-mouse TCR V γ 1.1/Cr4

Catalog # / Size: 1305535 / 25 μ g
1305540 / 100 μ g

Clone: 2.11

Isotype: Hamster IgG

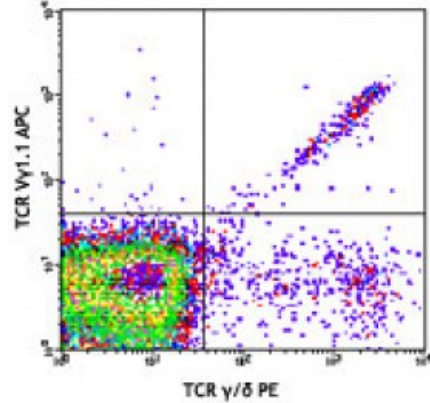
Immunogen: T3.13.1 T-cell hybridoma cell line

Reactivity: Mouse

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

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

Concentration: 0.2



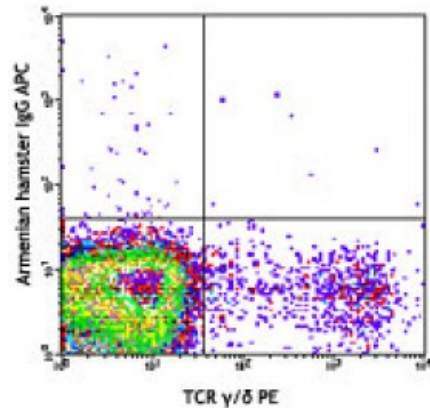
C57BL/6 mouse lymph node cells were stained with TCR γ/δ PE and TCR V γ 1.1 (clone 2.11) APC (top) or Armenian hamster IgG APC isotype control (bottom).

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 ≤ 0.125 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: immunoprecipitation¹.



- Application References:**
1. Pereira P, *et al.* 1995. *J. Exp. Med.* 182:1921. (IP)
 2. Pereira P and Boucontet L. 2004. *J. Immunol.* 173:3261. (FC)
 3. Pereira P, *et al.* 1996. *Intl. Immunol.* 8:83. (FC)

Description: T cell receptor (TCR) is a heterodimer consisting of an α and β chain (TCR α/β) or a γ and δ chain (TCR γ/δ). TCR associates with CD3 to form a CD3/TCR complex. The CD3/TCR plays a key role in antigen recognition, signal transduction, and T cell activation. TCR V γ 1.1 (Garman nomenclature) is also called TCR V γ 1 (Tonegawa nomenclature). The V γ 1 gene almost exclusively rearranges to the J γ 4-C γ 4 gene. V γ 1- J γ 4-C γ 4 expressing cells constitute a major population of γ/δ T cells in thymus and peripheral lymphoid organs in adult mice, but they are only composed of a minor population of γ/δ T cells during fetal and early postnatal life. V γ 1 T cell development can happen in thymus-dependent and thymus-independent manners. Further studies have shown that the antibody 2.11 recognized epitope is located in Cr4 domain.

Antigen 1. Pereira P, *et al.* 1995. *J. Exp. Med.* 182:1921.

References: 2. Grigoriadou K, *et al.* 2002. *J. Immunol.* 169:3736.