

**FITC anti-mouse TCR V $\gamma$ 1.1/Cr4**

**Catalog # / Size:** 1305515 / 25  $\mu$ g  
1305520 / 100  $\mu$ g

**Clone:** 2.11

**Isotype:** Hamster IgG

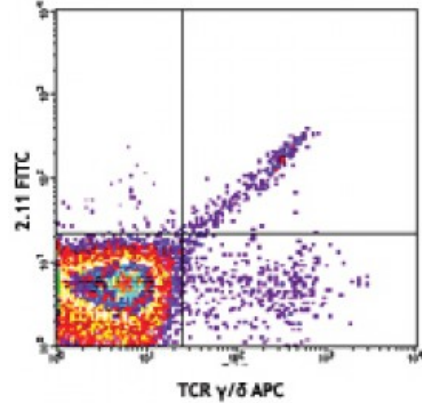
**Immunogen:** T3.13.1 T-cell hybridoma cell line

**Reactivity:** Mouse

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

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

**Concentration:** 0.5



C57BL/6 mouse lymph node cells were stained with anti-mouse TCR  $\gamma/\delta$  (clone GL3) APC and anti-mouse TCR V $\gamma$ 1.1 (clone 2.11) FITC (top) or Armenian hamster IgG FITC isotype control (bottom).

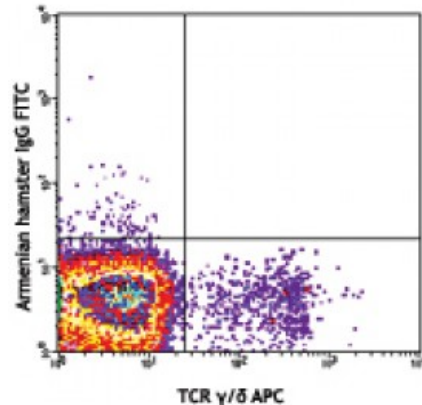
**Applications:**

**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  $\leq$ 0.25 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: immunoprecipitation<sup>1</sup>.

- 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)
  4. Jaffar Z, *et al.* 2011. *J. Immunol.* 187:5380. [PubMed](#)
  5. Guo Y, *et al.* 2013. *Infect immun.* 81:3923. [PubMed](#)



**Description:** T cell receptor (TCR) is a heterodimer consisting of an  $\alpha$  and  $\beta$  chain (TCR  $\alpha/\beta$ ) or a  $\gamma$  and  $\delta$  chain (TCR  $\gamma/\delta$ ). 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 $\gamma$ 1.1 (Garman nomenclature) is also called TCR V $\gamma$ 1 (Tonegawa nomenclature). The V $\gamma$ 1 gene almost exclusively rearranges to the J $\gamma$ 4-C $\gamma$ 4 gene. V $\gamma$ 1- J $\gamma$ 4-C $\gamma$ 4 expressing cells constitute a major population of  $\gamma/\delta$  T cells in thymus and peripheral lymphoid organs in adult mice, but they are only composed of a minor population of  $\gamma/\delta$  T cells during fetal and early postnatal life. V $\gamma$ 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.