## Pacific Blue™ anti-mouse TCR Vy1.1/Cr4

**Catalog** # /  $1305545 / 25 \mu g$ 

**Size:**  $1305550 / 100 \mu g$ 

**Clone:** 2.11

**Isotype:** Hamster IgG

Immunogen: T3.13.1 T-cell hybridoma cell line

Reactivity: Mouse

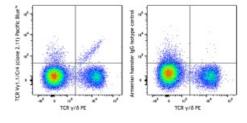
**Preparation:** The antibody was purified by affinity

chromatography and conjugated with Pacific Blueâ, ¢ under optimal conditions. The solution is free of unconjugated Pacific Blueâ, ¢.

**Formulation:** Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide.

Concentration: 0.5 mg/ml



C57BL/6 mouse splenocytes were stained with TCR  $\gamma/\delta$  PE and TCR  $V\gamma1.1$  (clone 2.11) Pacific Blue<sup>TM</sup> (left) or Armenian hamster IgG Pacific Blue<sup>TM</sup> isotype control (right).

## **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  $\leq 0.5~\mu g$  per million cells in  $100~\mu l$  volume. It is recommended that the reagent be titrated for optimal performance for each application.

\* Pacific Blue $^{\text{\tiny TM}}$  has a maximum emission of 455 nm when it is excited at 405 nm. Prior to using Pacific Blue $^{\text{\tiny TM}}$  conjugate for flow cytometric analysis, please

verify your flow cytometer's capability of exciting and detecting the

fluorochrome.

Application Notes:

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Additional reported applications (for the relevant formats) include:

immunoprecipitation<sup>1</sup>.

**Application** 

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

References:

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

**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 epitote is located in Cr4 domain.

Antigen References:

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

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

