Product Data Sheet

Pacific Blue™ anti-mouse TCR Vγ1.1/Cr4

Catalog # / $1305550 / 100 \mu g$

Size: 1305545 / 25 μg

Clone: 2.11

Isotype: Hamster IgG

Immunogen: T3.13.1 T-cell hybridoma cell line

Reactivity: Mouse

Preparation: The antibody was purified by affinity

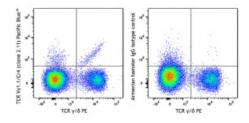
chromatography and conjugated with Pacific Blueâ, ¢ under optimal conditions. The solution is free of

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 γ/δ PE and TCR $V\gamma 1.1$ (clone 2.11) Pacific BlueTM (left) or Armenian hamster IgG Pacific BlueTM 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™ has a maximum emission of 455 nm when it is excited at 405 nm. Prior to using Pacific Blue™ conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.

Application

Notes:

Additional reported applications (for the relevant formats) include:

immunoprecipitation¹.

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 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

nomenclature) is also called TCR Vy1 (Tonegawa nomenclature). The Vy1 gene almost exclusively rearranges to the Jy4-Cy4 gene. Vy1- Jy4-Cy4 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. Vy1 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.

 Pereira P, et al. 1995. J. Exp. Med. 182:1921.
 Grigoriadou K, et al. 2002. J. Immunol. 169:3736. References: For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held

Antigen