SONY

Product Data Sheet

PerCP/Cyanine5.5 anti-mouse TCR Vγ2

Catalog # / Size: 1288555 / 25 µg
1288560 / 100 µg

Clone: UC3-10A6

Isotype: Hamster IgG

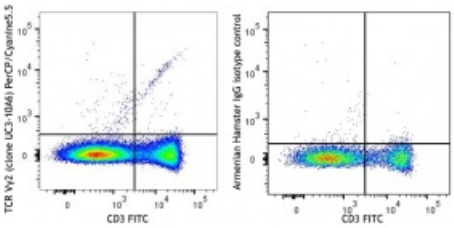
Immunogen: G8 mouse T cells

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with PerCP/Cyanine5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cyanine5.5 and unconjugated antibody.

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

Concentration: 0.2 mg/ml



C57BL/6 splenocytes were stained with CD3 FITC and TCR Vγ2 (clone UC3-10A6) PerCP/Cyanine5.5 (left) or Armenian Hamster IgG PerCP/Cyanine5.5 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 ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

* PerCP/Cyanine5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.

Application References:

1. Dent AL, *et al.* 1990. *Nature* 343:714.
2. Kelly KA, *et al.* 1993. *Int. Immunol.* 5:331.
3. Sperling AI, *et al.* 1992. *J. Immunol.* 149:3200.
4. Sperling AI, *et al.* 1997. *J. Immunol.* 159:86.

Description: T cell receptor (TCR) Vγ2 bearing T lymphocytes make up a significant proportion of γδ TCR cells in late fetal and adult peripheral lymphoid tissues. TCR γδ T cells may play a role in immunological surveillance for stress-induced self-antigens. The frequency of Vγ2 expression in different strains varied from 12% to 54% in the TCR γδ repertoire. Variations in the levels of $V\gamma2^+$ cells are not associated with MHC haplotype. High Vγ2 expression is influenced by the TCR-δ locus. Expanding $V\gamma2^+$ TCRγδ cells in B6 mice overwhelmingly use a $V\delta7^+$ δ chain except in the DBA/2 strain.

Antigen References:

1. Allison JP, *et al.* 1991. *Annu. Rev. Immunol.* 9:679.
2. O'Brien RL, *et al.* 2000. *J. Immunol.* 165:6472.

Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com