SONY

Product Data Sheet

PE/Dazzle™ 594 anti-human TCR Vα24-Jα18 (iNKT cell)

Catalog # / Size: 2314600 / 100 tests
2314595 / 25 tests

Clone: 6B11

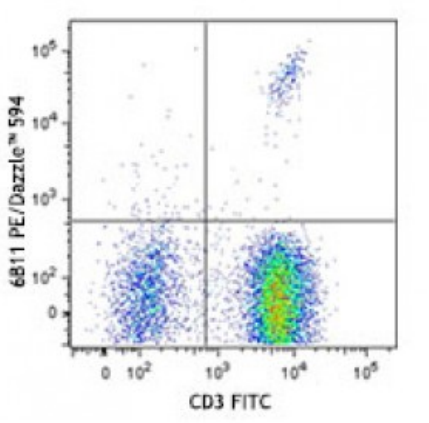
Isotype: Mouse IgG1, κ

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with PE/Dazzle™ 594 under optimal conditions. The solution is free of unconjugated PE/Dazzle™ 594 and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Concentration: Lot-specific



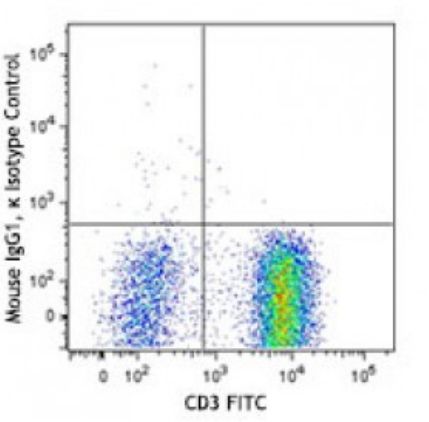
Human peripheral blood lymphocytes were stained with CD3 FITC and TCR Vα24-Jα18 (clone 6B11) PE/Dazzle™ 594 (top) or mouse IgG1 κ PE/Dazzle™ 594 isotype control (bottom).

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 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.



Application Notes: The 6B11 antibody recognizes the invariant CDR3 region of TCR Vα24-JαQ.

Application References:
1. Rout N, *et al.* 2010. *PLoS One* 5:e9787. (FC)

Description: Encoded by the TCR Vα24-Jα18 germline configuration, Vα24-JαQ is expressed on a subset of NKT cells, namely invariant NKT (iNKT). Vα24-JαQ TCR interacts with the glycolipid loaded MHC class 1b molecule CD1d, inducing activation and subsequent cytokine production. iNKT cells have been implicated in immune regulation, tumor surveillance, and host response to pathogens. While iNKT cells occur at low frequency in the blood, assorted chemokines contribute to their tissue homing potential.

Antigen
1. Thomas SY, *et al.* 2003. *J. Immunol.* 171:2571.

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

References: 2. Exley MA, *et al.* 2008. *Eur. J. Immunol.* 38:1756.
3. Montoya CJ, *et al.* 2007. *Immunology.* 122:1.
4. Gansuvd B, *et al.* 2003.