SONY

Product Data Sheet

PE anti-human TCR Vα24-Jα18 (iNKT cell)

Catalog # / Size: 2314520 / 100 tests
2314515 / 25 tests

Clone: 6B11

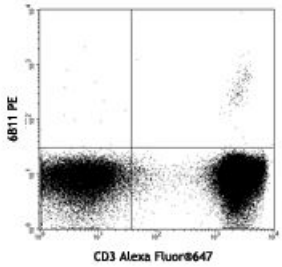
Isotype: Mouse IgG1, κ

Reactivity: Human, Other

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions.

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

Concentration: Lot-specific

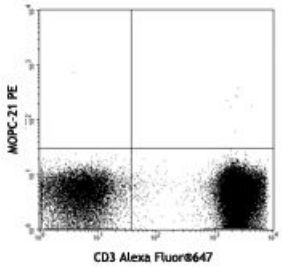


Human peripheral blood lymphocytes stained with 6B11 PE and CD3 (UCHT1) Alexa Fluor® 647 (top) or mIgG1, κ(MOPC-21) PE isotype control and CD3 (UCHT1) Alexa Fluor® 647 (bottom)

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 µl to 5 µl per test**. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 µl staining volume or per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.



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.

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Antigen References:

1. Thomas SY, *et al.* 2003. *J. Immunol.* 171:2571.
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. *J. Immunol.* 171:2904.

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