

Brilliant Violet 510™ anti-human TCR Vα24-Jα18 (iNKT cell)

Catalog # / Size: 2314590 / 100 tests
2314585 / 25 tests

Clone: 6B11

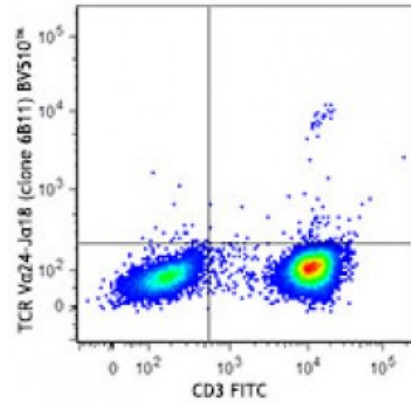
Isotype: Mouse IgG1, κ

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 510™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 510™ and unconjugated antibody.

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

Concentration: Lot-specific

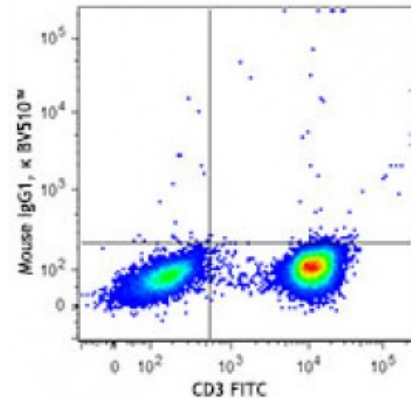


Human peripheral blood lymphocytes were stained with CD3 FITC and TCR Vα24-Jα18 (clone 6B11) Brilliant Violet 510™ (top) or mouse IgG1, κ Brilliant Violet 510™ isotype control (bottom).

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.



Brilliant Violet 510™ excites at 405 nm and emits at 510 nm. The bandpass filter 510/50 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. **Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel.** Refer to your instrument manual or manufacturer for support. Brilliant Violet 510™ is a trademark of Sirigen Group Ltd.

This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research

purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.

Application Notes: The 6B11 antibody recognizes the invariant CDR3 region of TCR V α 24-J α Q.

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

Description: Encoded by the TCR V α 24-J α 18 germline configuration, V α 24-J α Q is expressed on a subset of NKT cells, namely invariant NKT (iNKT). V α 24-J α Q 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 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. Gansuud B, *et al.* 2003.