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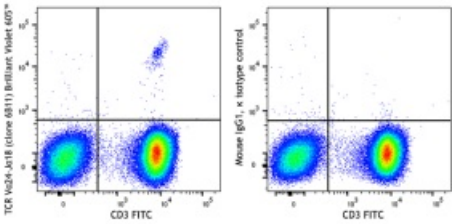
Product Data Sheet

Brilliant Violet 605™ anti-human TCR Vα24-Jα18 (iNKT cell)

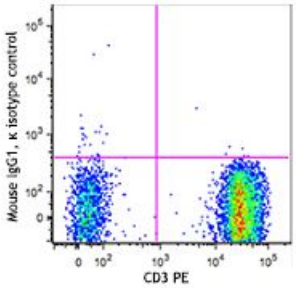
Catalog # / Size:	2314645 / 25 tests 2314650 / 100 tests
Clone:	6B11
Isotype:	Mouse IgG1, κ
Immunogen:	human PBL
Reactivity:	Human, Other
Preparation:	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 605™ under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).
Workshop Number:	750 under optimal conditions.
Concentration:	Lot-specific



Human peripheral blood lymphocytes were stained with CD3 FITC and anti-human TCR Vα24-Jα18 (iNKT cell) (clone 6B11) Brilliant Violet 605™ (left) or mouse IgG1, κ Brilliant Violet 605™ isotype control (right).

Applications:

Applications: Flow Cytometry



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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 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.

Brilliant Violet 605™ excites at 405 nm and emits at 603 nm. The bandpass filter 610/20 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 605™ is a trademark of Sirigen Group Ltd.

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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 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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