

## Brilliant Violet 605™ anti-human TCR Va24-Ja18 (iNKT cell) Antibody

<b>Catalog# / Size</b>	342929 / 25 tests 342930 / 100 tests
<b>Clone</b>	6B11
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	TCR Va24-Ja18, TCR Va24-JaQ, invariant NKT cell, iNKT
<b>Isotype</b>	Mouse IgG1, κ
<b>Description</b>	Encoded by the TCR Va24-Ja18 germline configuration, Va24-JaQ is expressed on a subset of NKT cells, namely invariant NKT (iNKT). Va24-JaQ 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.

### Product Details

<b>Verified Reactivity</b>	Human, Rhesus, Pigtailed Macaque, Sooty Mangabey
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 605™ under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our <a href="#">Concentration and Expiration Lookup</a> or <a href="#">Certificate of Analysis</a> online tools.)
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	<p>Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a>. 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.</p> <p>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.</p> <p><a href="#">Learn more about Brilliant Violet™.</a></p> <p>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.</p>
<b>Excitation Laser</b>	Violet Laser (405 nm)
<b>Application Notes</b>	The 6B11 antibody recognizes the invariant CDR3 region of TCR Va24-JaQ.
<b>Application References</b>	1. Rout N, <i>et al.</i> 2010. <i>PLoS One</i> 5:e9787. (FC)
<b>(PubMed link indicates BioLegend citation)</b>	

RRID

AB\_2814261 (BioLegend Cat. No. 342929)  
AB\_2814262 (BioLegend Cat. No. 342930)

## Antigen Details

<b>Structure</b>	Invariant CDR3 region of TCR Va24-JaQ
<b>Distribution</b>	Invariant NKT cells
<b>Ligand/Receptor</b>	Glycolipid loaded CD1d
<b>Cell Type</b>	NKT cells
<b>Biology Area</b>	Immunology
<b>Molecular Family</b>	TCRs

### 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. *J. Immunol.* 171:2904.

**Gene ID** [28659](#)

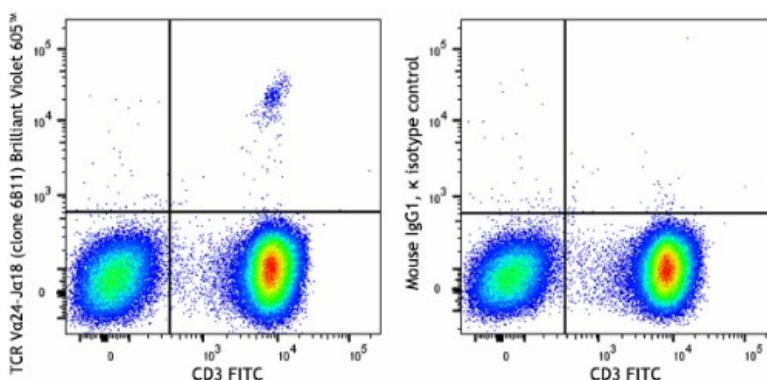
## Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

Purified anti-human TCR Va24-Ja18 (iNKT cell), PE anti-human TCR Va24-Ja18 (iNKT cell), FITC anti-human TCR Va24-Ja18 (iNKT cell), APC anti-human TCR Va24-Ja18 (iNKT cell), PE/Cyanine7 anti-human TCR Va24-Ja18 (iNKT cell), PerCP/Cyanine5.5 anti-human TCR Va24-Ja18 (iNKT cell), Brilliant Violet 421™ anti-human TCR Va24-Ja18 (iNKT cell), Brilliant Violet 510™ anti-human TCR Va24-Ja18 (iNKT cell), PE/Dazzle™ 594 anti-human TCR Va24-Ja18 (iNKT cell), Brilliant Violet 711™ anti-human TCR Va24-Ja18 (iNKT cell), TotalSeq™-A0584 anti-human TCR Va24-Ja18 (iNKT cell), TotalSeq™-C0584 anti-human TCR Va24-Ja18 (iNKT cell), Brilliant Violet 605™ anti-human TCR Va24-Ja18 (iNKT cell), Brilliant Violet 785™ anti-human TCR Va24-Ja18 (iNKT cell), TotalSeq™-B0584 anti-human TCR Va24-Ja18 (iNKT cell), APC/Fire™ 750 anti-human TCR Va24-Ja18 (iNKT cell), APC/Cyanine7 anti-human TCR Va24-Ja18 (iNKT cell)

## Product Data



Human peripheral blood lymphocytes were stained with CD3 FITC and anti-human TCR Va24-Ja18 (iNKT cell) (clone 6B11) Brilliant Violet 605™ (left) or mouse IgG1, κ isotype control (right).

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8999 BioLegend Way, San Diego, CA 92121 [www.biolegend.com](http://www.biolegend.com)  
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587