

## Brilliant Violet 510™ anti-human TCR Vδ2 Antibody

<b>Catalog# / Size</b>	331431 / 25 tests 331432 / 100 tests
<b>Clone</b>	B6
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	T cell receptor V δ 2
<b>Isotype</b>	Mouse IgG1, κ
<b>Description</b>	The Vδ2 TCR is a variant of the TCR δ chain expressed on a subset of γ/δ T cells. Vγ9Vδ2 T lymphocytes, a major γ/δ T cell subset in humans, recognize phosphoantigens, certain tumor cells, and cells treated with aminobisphosphonates. This cell population displays cytolytic activity against various tumor cells. The γ/δ TCR is a heterodimeric TCR complex composed of covalently bound γ and δ chains involved in antigen recognition and the non-covalently associated monomorphic proteins CD3δ, γ, ε, and ζ chains.

### Product Details

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<b>Verified Reactivity</b>	Human
<b>Reported Reactivity</b>	Chimpanzee, Rhesus
<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 510™ 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 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.</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 References</b>	<ol style="list-style-type: none"><li>1. Rojas RE, <i>et al.</i> 2005. <i>J. Infect. Dis.</i> 192:1806.</li><li>2. Correia DV, <i>et al.</i> 2011. <i>Blood</i> 118:992. (FC) <a href="#">PubMed</a></li></ol>

RRID

AB\_2783214 (BioLegend Cat. No. 331431)  
AB\_2783215 (BioLegend Cat. No. 331432)

## Antigen Details

<b>Structure</b>	Ig superfamily member, TCR $\gamma/\delta$ with CD3 forms the CD3/TCR complex
<b>Distribution</b>	Expressed on majority of peripheral $\gamma/\delta$ T cells
<b>Function</b>	Antigen recognition, T cell activation
<b>Ligand/Receptor</b>	Peptide bound to MHC
<b>Cell Type</b>	T cells
<b>Biology Area</b>	Adaptive Immunity, Immunology
<b>Molecular Family</b>	TCRs
<b>Antigen References</b>	1. Scotet E, <i>et al.</i> 2005. <i>Immunity</i> 22:71. 2. Rincon-Orozco B, <i>et al.</i> 2005. <i>J. Immunol.</i> 175:2144.
<b>Gene ID</b>	<a href="#">6964</a>

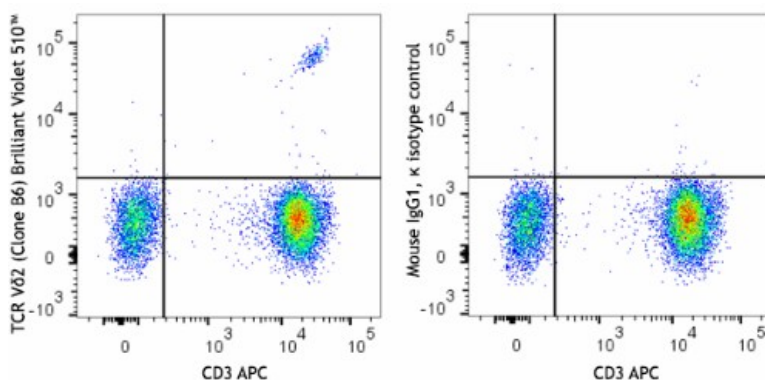
## Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

Purified anti-human TCR V $\delta$ 2, Biotin anti-human TCR V $\delta$ 2, FITC anti-human TCR V $\delta$ 2, PE anti-human TCR V $\delta$ 2, PerCP anti-human TCR V $\delta$ 2, Brilliant Violet 711™ anti-human TCR V $\delta$ 2, Pacific Blue™ anti-human TCR V $\delta$ 2, Alexa Fluor® 700 anti-human TCR V $\delta$ 2, PerCP/Cyanine5.5 anti-human TCR V $\delta$ 2, APC anti-human TCR V $\delta$ 2, PE/Cyanine7 anti-human TCR V $\delta$ 2, APC/Fire™ 750 anti-human TCR V $\delta$ 2, Brilliant Violet 421™ anti-human TCR V $\delta$ 2, Brilliant Violet 605™ anti-human TCR V $\delta$ 2, PE/Dazzle™ 594 anti-human TCR V $\delta$ 2, Brilliant Violet 510™ anti-human TCR V $\delta$ 2, TotalSeq™-A0582 anti-human TCR V $\delta$ 2, TotalSeq™-C0582 anti-human TCR V $\delta$ 2, TotalSeq™-B0582 anti-human TCR V $\delta$ 2, APC/Cyanine7 anti-human TCR V $\delta$ 2

## Product Data



Human peripheral blood lymphocytes were stained with CD3 APC and TCR V $\delta$ 2 (clone B6) Brilliant Violet 510™ (left) or mouse IgG1,  $\kappa$  Brilliant Violet 510™ isotype control (right).

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