

## PE anti-human TCR Vδ2 Antibody

<b>Catalog# / Size</b>	331407 / 25 tests 331408 / 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

---

<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 PE 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>	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.
<b>Excitation Laser</b>	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 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>

<b>Product Citations</b>	<ol style="list-style-type: none"> <li>1. Mayassi T, <i>et al.</i> 2019. <i>Cell.</i> 176:967. <a href="#">PubMed</a></li> <li>2. Zhan Y, <i>et al.</i> 2021. <i>JCI Insight.</i> 6:. <a href="#">PubMed</a></li> <li>3. McCarthy N, <i>et al.</i> 2013. <i>J Immunol.</i> 191:2752. <a href="#">PubMed</a></li> <li>4. Fisher J, <i>et al.</i> 2017. <i>Mol Ther.</i> 10.1016/j.ymthe.2017.03.002. <a href="#">PubMed</a></li> <li>5. Meraviglia S, <i>et al.</i> 2017. <i>Oncoimmunology.</i> 6:e1347742. <a href="#">PubMed</a></li> <li>6. López M, <i>et al.</i> 2014. <i>Cell Immunol.</i> 288:47. <a href="#">PubMed</a></li> <li>7. Hunter S, <i>et al.</i> 2018. <i>J Hepatol.</i> 69:654. <a href="#">PubMed</a></li> <li>8. Yin S, <i>et al.</i> 2015. <i>Sci Rep.</i> 5: 14432. <a href="#">PubMed</a></li> <li>9. Correia DV, <i>et al.</i> 2011. <i>Blood.</i> 118:992. <a href="#">PubMed</a></li> <li>10. Frasca D, <i>et al.</i> 2018. <i>PLoS One.</i> 13:e0197472. <a href="#">PubMed</a></li> <li>11. Lo Presti E, <i>et al.</i> 2020. <i>J Leukoc Biol.</i> 108:749. <a href="#">PubMed</a></li> <li>12. Siegers G, <i>et al.</i> 2011. <i>PLoS One.</i> 6:e16700. <a href="#">PubMed</a></li> <li>13. Ribot J, <i>et al.</i> 2014. <i>J Immunol.</i> 192:2237. <a href="#">PubMed</a></li> </ol>
--------------------------	--

RRID AB\_1089233 (BioLegend Cat. No. 331407)  
AB\_1089232 (BioLegend Cat. No. 331408)

## 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>

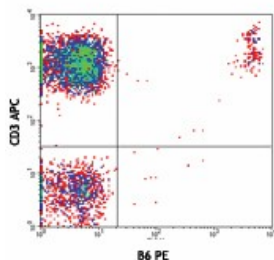
## Related Protocols

[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 stained with CD3 (UCHT1) APC and B6 PE

For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

\*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, [www.biolegend.com/ordering#license](http://www.biolegend.com/ordering#license)). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

BioLegend Inc., 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

