

Brilliant Violet 605™ anti-human TCR Vδ2 Antibody

Catalog# / Size	331429 / 25 tests 331430 / 100 tests
Clone	B6
Regulatory Status	RUO
Other Names	T cell receptor V δ 2
Isotype	Mouse IgG1, κ
Description	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 monomeric proteins CD3δ, γ, ε, and ζ chains.

Product Details

Verified Reactivity	Human
Reported Reactivity	Chimpanzee, Rhesus
Antibody Type	Monoclonal
Host Species	Mouse
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).
Preparation	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 605™ under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	<p>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. It is recommended that the reagent be titrated for optimal performance for each application.</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>Learn more about Brilliant Violet™.</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>
Excitation Laser	Violet Laser (405 nm)
Application References	<ol style="list-style-type: none"> 1. Rojas RE, <i>et al.</i> 2005. <i>J. Infect. Dis.</i> 192:1806. 2. Correia DV, <i>et al.</i> 2011. <i>Blood</i> 118:992. (FC) PubMed
(PubMed link indicates	

BioLegend citation)

Product Citations

1. Ma Y, *et al.* 2021. *HepatoL Commun.* 5:1106. [PubMed](#)
2. Bordoni V, *et al.* 2022. *iScience.* 25:103854. [PubMed](#)

RRID

AB_2783212 (BioLegend Cat. No. 331429)
AB_2783213 (BioLegend Cat. No. 331430)

Antigen Details

Structure	Ig superfamily member, TCR γ/δ with CD3 forms the CD3/TCR complex
Distribution	Expressed on majority of peripheral γ/δ T cells
Function	Antigen recognition, T cell activation
Ligand/Receptor	Peptide bound to MHC
Cell Type	T cells
Biology Area	Adaptive Immunity, Immunology
Molecular Family	TCRs
Antigen References	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.
Gene ID	6964

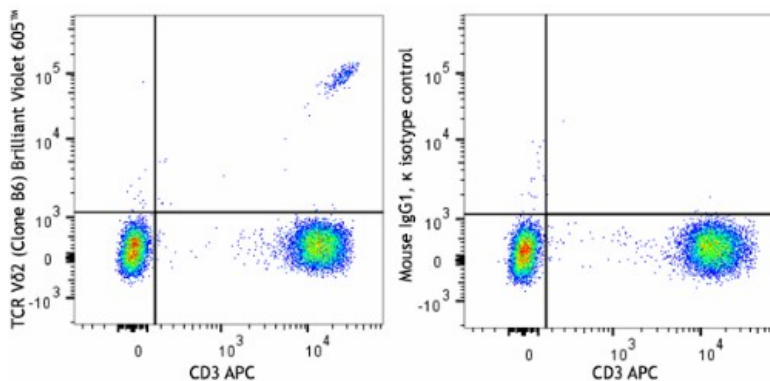
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

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

Product Data



Human peripheral blood lymphocytes were stained with CD3 APC and TCR V δ 2 (clone B6) Brilliant Violet 605™ (left) or mouse IgG1, κ Brilliant Violet 605™ isotype control (right).

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