

FITC anti-human TCR V δ 2 Antibody

Catalog# / Size	331405 / 25 tests 331406 / 100 tests
Clone	B6
Regulatory Status	RUO
Other Names	T cell receptor V δ 2
Isotype	Mouse IgG1, κ
Description	The V δ 2 TCR is a variant of the TCR δ chain expressed on a subset of γ/δ T cells. V γ 9V δ 2 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 CD3 δ , 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 FITC 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	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 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l of whole blood.
Excitation Laser	Blue Laser (488 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
Product Citations	<ol style="list-style-type: none"> 1. Wragg KM, <i>et al.</i> 2020. <i>Cell Reports</i>. 31(11):107773. PubMed 2. Willcox CR, <i>et al.</i> 2020. <i>Immunity</i>. 51(5):813-825.e4.. PubMed 3. Jeon SB, <i>et al.</i> 2022. <i>Int J Stem Cells</i>. Online ahead of print. PubMed 4. Garrido C, <i>et al.</i> 2018. <i>JCI Insight</i>. 3:e120121. PubMed 5. Vyborova A, <i>et al.</i> 2022. <i>Front Immunol</i>. 13:915366. PubMed 6. Krishnan S, <i>et al.</i> 2021. <i>Clin Exp Immunol</i>. 203:458. PubMed 7. Yin S, <i>et al.</i> 2015. <i>Sci Rep</i>. 5: 14432. PubMed 8. Wang Z, <i>et al.</i> 2018. <i>Front Immunol</i>. 9:1239. PubMed 9. Tsai C, <i>et al.</i> 2015. <i>J Immunol</i>. 194:3890. PubMed
RRID	AB_1089231 (BioLegend Cat. No. 331405) AB_1089230 (BioLegend Cat. No. 331406)

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

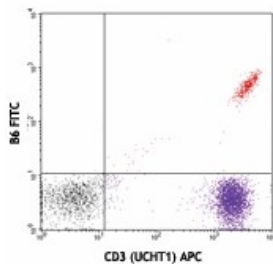
Related Protocols

[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 stained with CD3 (UCHT1) APC and B6 FITC

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