

PerCP/Cyanine5.5 anti-human TCR V δ 2 Antibody

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|--------------------------|---|
| Catalog# / Size | 331423 / 25 tests 331424 / 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 an 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

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| 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 PerCP/Cyanine5.5 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. It is recommended that the reagent be titrated for optimal performance for each application * PerCP/Cyanine5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm. |
| Excitation Laser | Blue Laser (488 nm) |
| Additional Product Notes | BioLegend is in the process of converting the name PerCP/Cy5.5 to PerCP/Cyanine5.5. The dye molecule remains the same, so you should expect the same quality and performance from our PerCP/Cyanine5.5 products. Contact Technical Service if you have any questions. |
| 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. Bergamaschi L, <i>et al.</i> 2021. <i>Immunity.</i> 54(6):1257-1275.e8. PubMed |
| RRID | AB_2687329 (BioLegend Cat. No. 331423) AB_2687330 (BioLegend Cat. No. 331424) |

Antigen Details

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|---------------------------|---|
| 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 |

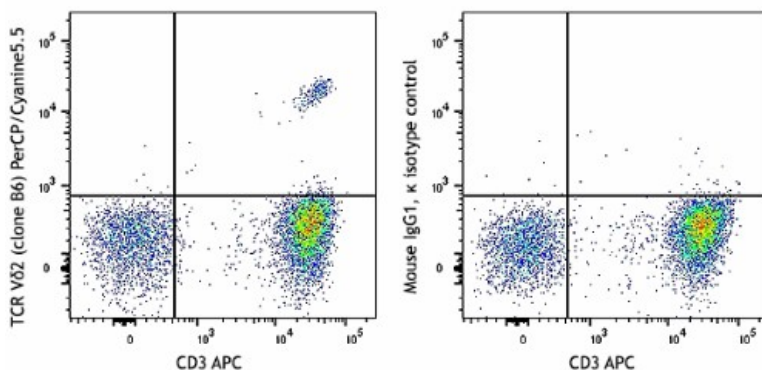
Related Protocols

[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) PerCP/Cyanine5.5 (left), or mouse IgG1, &kappa& PerCP/Cyanine5.5 isotype control (right).

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