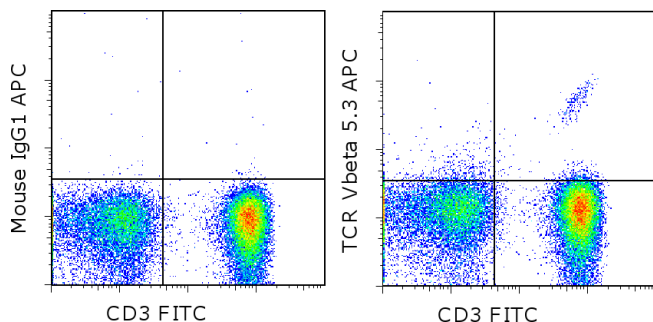


## Anti-Human V beta 5.3 TCR APC

**Catalog Number:** 17-5709

**Also known as:** Vbeta 5.3, Vbeta5.3, Vb5.3

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



Staining of normal human peripheral blood cells with Anti-Human CD3 FITC (cat. 11-0038) and Mouse IgG1 kappa Isotype Control APC (cat. 17-4714) (left) or Anti-Human V beta 5.3 TCR APC (right). Cells in the lymphocyte gate were used for analysis.

### Product Information



**Contents:** Anti-Human V beta 5.3 TCR APC

**Catalog Number:** 17-5709

**Clone:** 3D11

**Concentration:** 5  $\mu$ L (0.5  $\mu$ g)/test

**Host/Isotype:** Mouse IgG1



**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light sensitive material.

**Batch Code:** Refer to vial

**Use By:** Refer to vial

### Description

This 3D11 monoclonal antibody recognizes the human T cell receptor (TCR) V $\beta$ 5.3 allele. Composed of an  $\alpha$  and  $\beta$  chain, TCR specificity is typically determined by V $\alpha$ , J $\alpha$ , V $\beta$ , D $\beta$ , and J $\beta$  gene rearrangement. V $\beta$  expression in humans has been examined in studies on the effects of superantigens, inflammation, autoimmune disease, and HIV infection. More recently, assessment of TCR V $\beta$  expression has been used to phenotype T cell clonality in CD3+/TCR $\alpha\beta$ + large granular lymphocyte leukemias. A member of the Ig superfamily, this receptor is expressed on a subset of peripheral blood T cells.

### Applications Reported

This 3D11 antibody has been reported for use in flow cytometric analysis.

### Applications Tested

This 3D11 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5  $\mu$ L (0.5  $\mu$ g) per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test.

### References

Dong T, Stewart-Jones G, Chen N, Easterbrook P, Xu X, Papagno L, Appay V, Weekes M, Conlon C, Spina C, Little S, Screaton G, van der Merwe A, Richman DD, McMichael AJ, Jones EY, Rowland-Jones SL. HIV-specific cytotoxic T cells from long-term survivors select a unique T cell receptor. *J Exp Med*. 2004 Dec 20;200(12):1547-57.

Liima M, Almeida J, Santos AH, dos Anjos Teixeira M, Alguero MC, Queirós ML, Balanzategui A, Justiça B, Gonzalez M, San Miguel JF, Orfão A. Immunophenotypic analysis of the TCR-Vbeta repertoire in 98 persistent expansions of CD3(+)/TCR-alpha-beta(+) large granular lymphocytes: utility in assessing clonality and insights into the pathogenesis of the disease. *Am J Pathol*. 2001 Nov;159(5):1861-8.

Choi YW, Kotzin B, Lafferty J, White J, Pigeon M, Kubo R, Kappler J, Marrack P. A method for production of antibodies to human T-cell receptor beta-chain variable regions. *Proc Natl Acad Sci U S A*. 1991 Oct 1;88(19):8357-

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### Related Products

11-0038 Anti-Human CD3 FITC (UCHT1)

17-4714 Mouse IgG1 K Isotype Control APC (P3.6.2.8.1)

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