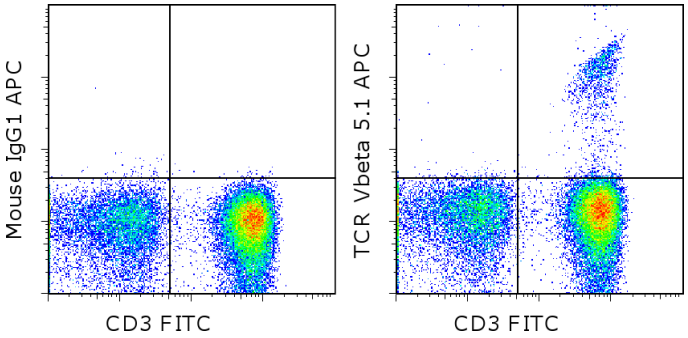
Anti-Human V beta 5.1 TCR APC

Catalog Number: 17-5832
Also known as: Vbeta 5.1, Vbeta5.1, Vb 5.1, Vb5.1
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 5.1 TCR APC (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human V beta 5.1 TCR APC
REF **Catalog Number:** 17-5832
Clone: LC4
Concentration: 5 uL (0.5 ug)/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.
LOT **Batch Code:** Refer to vial
Use By: Refer to vial

Description

This LC4 monoclonal antibody recognizes the human T cell receptor (TCR) Vβ5.1 allele. Composed of an α and β chain, TCR specificity is typically determined by Vaα, Jα, Vβ, Dβ, and Jβ gene rearrangement. Vβ expression in humans has been examined in studies on the effects of superantigens, inflammation, autoimmune disease, and HIV infection. More recently, assessment of TCR Vβ expression has been used to phenotype T cell clonality in CD3+/TCRαβ+ large granular lymphocyte leukemias. A member of the Ig superfamily, this receptor is expressed on a subset of peripheral blood T cells.

This monoclonal antibody has been reported to induce apoptosis and calcium flux.

Applications Reported

This LC4 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This LC4 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.5 µg) per test. A test is defined as the amount (ug) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

References

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Maecker HT, Levy R. Prevalence of antigen receptor variants in human T cell lines and tumors. J Immunol. 1989 Feb 15;142(4):1395-404. (**LC4**, FC, Pubmed)

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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