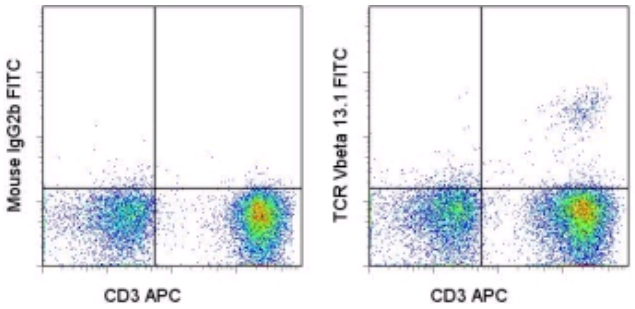
full spectrum cell analysis®
eBioscience®

Anti-Human V beta 13.1 TCR FITC

Catalog Number: 11-5792
Also Known As:Vbeta 13.1, Vbeta13.1, Vb13.1
RUO: For Research Use Only



Staining of normal human peripheral blood cells with Anti-Human CD3 APC (cat. 17-0038) and Mouse IgG2b κ Isotype Control FITC (cat. 11-4732) (left) or Anti-Human V β13.1 TCR FITC (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human V beta 13.1 TCR FITC
REF Catalog Number: 11-5792
Clone: H131
Concentration: 5 µl (1.0 µg)/test
Host/Isotype: Mouse IgG2b, κ

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 H131 monoclonal antibody recognizes the human T cell receptor (TCR) Vβ13.1 allele. Composed of an α and β chain, TCR specificity is typically determined by Vα, 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.

Applications Reported

This H131 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This H131 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µl (1.0 µg)/per test. A test is defined as the amount (µg)/test 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

Chang JC, Smith LR, Froning KJ, Schwabe BJ, Laxer JA, Caralli LL, Kurland HH, Karasek MA, Wilkinson DI, Carlo DJ, et al. CD8+ T cells in psoriatic lesions preferentially use T-cell receptor V beta 3 and/or V beta 13.1 genes. Proc Natl Acad Sci U S A. 1994 Sep 27;91(20):9282-6.

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):8357-61. (H131, Flow, Pubmed)

Choi YW, Kotzin B, Herron L, Callahan J, Marrack P, Kappler J. Interaction of Staphylococcus aureus toxin "superantigens" with human T cells. Proc Natl Acad Sci U S A. 1989 Nov;86(22):8941-5.

Related Products

11-4732 Mouse IgG2b K Isotype Control FITC
46-0037 Anti-Human CD3 PerCP-eFluor® 710 (OKT3)