TCR V beta 13.1 Monoclonal Antibody (H131), FITC, eBioscience™

Product Details	
Size	25 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG2b, kappa
Recommended Isotype Control	Mouse IgG2b kappa Isotype Control (eBMG2b), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	H131
Conjugate	FITC
Excitation/Emission Max	498/517 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_1944415

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (1 µg)/test	1 Publication

Product Specific Information

Description: This H131 monoclonal antibody recognizes the human T cell receptor (TCR) Vbeta13.1 allele. Composed of an alpha and beta chain, TCR specificity is typically determined by Valpha, Jalpha, Vbeta, Dbeta, and Jbeta gene rearrangement. Vbeta expression in humans has been examined in studies on the effects of superantigens, inflammation, autoimmune disease, and HIV infection. More recently, assessment of TCR Vbeta expression has been used to phenotype T cell clonality in CD3+/TCRalpha beta+ large granular lymphocyte leukemias. A member of the Ig superfamily, this receptor is expressed on a subset of peripheral blood T cells.

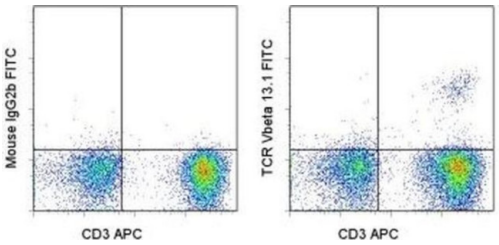
Applications Reported: This H131 antibody has been reported for use in flow cytometric analysis.

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 µg) per test. A test is defined as the amount (µg) 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.

Excitation: 488 nm; Emission: 520 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For TCR V beta 13.1 Monoclonal Antibody (H131), FITC, eBioscience™



TCR V beta 13.1 Antibody (11-5792-41) in Flow
Staining of normal human peripheral blood cells with Anti-Human CD3 APC (Product # 17-0038-42) and Mouse IgG2b kappa Isotype Control FITC (Product # 11-4732-42) (left) or Anti-Human V beta 13.1 TCR FITC (right). Cells in the lymphocyte gate were used for analysis.

1 Reference

Flow Cytometry (1)

Cell reports

Evaluation of Single-Cell Cytokine Secretion and Cell-Cell Interactions with a Hierarchical Loading Microwell Chip.

"11-5792 was used in Flow cytometry/Cell sorting to develop a hierarchical loading microwell chip (HL-Chip) that is capable of efficiently aligning multiple cells of different types and/or microbeads as desired in a highthroughput manner."

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Year
2020

Species
Human