

TCL1 Monoclonal Antibody (eBio1-21 (1-21)), PE, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG2b, kappa
Recommended Isotype Control	Mouse IgG2b kappa Isotype Control (eBMG2b), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio1-21 (1-21)
Conjugate	PE
Excitation/Emission Max	565/576 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_10853340

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	1 Publication

Product Specific Information

Description: The eBio1-21 antibody reacts with human T cell leukemia/lymphoma 1 (TCL1), a 14 kDa proto-oncogene product with a suggested role in intracellular regulation of T cell signalling. TCL1 was identified as the oncogene located at the 14q32.1 chromosome breakpoint region in T-cell prolymphocytic leukemia (T-PLL). In T-PLL, TCL1 is overexpressed as a result of an inversion or a reciprocal translocation, by juxtaposition to the T-cell receptor promoter/enhancer elements. TCL1 binds to the pleckstrin homology domain of Akt (protein kinase B) family proteins, which facilitates Akt dimerization and activity. By increasing Akt activity TCL1 may enhance the serine/threonine phosphorylation of major Akt signaling substrates, such as Ikk complex, mTOR, BAD, p70S6 kinase, FOXO transcription factors, and GSK3beta. These substrates regulate cellular differentiation, growth, survival, and metabolism.

Besides its tumorigenic role in T-PLL, TCL1 is normally expressed in the CD3-CD4-CD8- subset of thymic precursors in the T cell lineage, the plasmacytoid subset of dendritic cells, stimulated (not resting) mature T cells, and B cells up to the germinal center stage of maturation. TCL1 is inappropriately expressed by chromosome rearrangements that lead to pre-malignant clonal T cell expansions and mature T cell tumors. TCL1 shows a regulated expression pattern in chronic lymphocytic leukemia (CLL).

Applications Reported: This eBio1-21 (1-21) antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

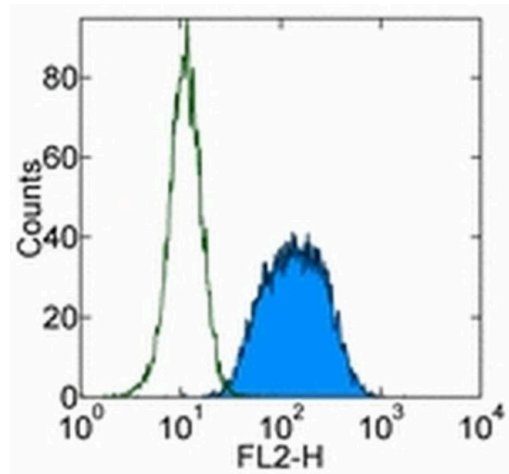
Applications Tested: This eBio1-21 (1-21) antibody is offered in 2 formats: - µg size: has been tested by intracellular staining

followed by flow cytometric analysis of Daudi cells. This can be used at less than or equal to 0.25 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest. - test size: has been pre-titrated and tested by intracellular staining followed by flow cytometric analysis of Daudi cells. This can be used at 5 µL (0.125 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 10⁵ to 10⁸ cells/test.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For TCL1 Monoclonal Antibody (eBio1-21 (1-21)), PE, eBioscience™



TCL1 Antibody (12-6699-42) in Flow
Staining of Daudi cells with 0.125 µg of Mouse IgG2a kappa Isotype Control PE (Product # 12-4732-81) (open histogram) or 0.125 µg of Anti-Human TCL1 PE (filled histogram). Total viable cells were used for analysis.

1 Reference

Flow Cytometry (1)

Leukemia	Year 2012
Stromal cells modulate TCL1 expression, interacting AP-1 components and TCL1-targeting micro-RNAs in chronic lymphocytic leukemia.	Species Human
"12-6699 was used in Flow cytometry/Cell sorting to demonstrate that the microenvironment has a proactive role in the regulation of TCL1 in CLL."	
Authors: Sivina M,Hartmann E,Vasyutina E,Boucas JM,Breuer A,Keating MJ,Wierda WG,Rosenwald A,Herling M,Burger JA	

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