

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

Product Details	
Size	100 µg
Species reactivity	Human
Host / Isotype	Mouse / IgG2b, kappa
Class	Monoclonal
Type	Antibody
Clone	eBio1-21 (1-21)
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4°C
RRID	AB_68197

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	-
Immunohistochemistry (Paraffin) (IHC (P))	Assay-Dependent	-
Immunoprecipitation (IP)	Assay-Dependent	-
Western Blot (WB)	5 µg/test	-

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 polymorphic 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, immunoprecipitation, immunoblotting (WB), and immunohistology staining of paraffin embedded tissue sections. (Fluorochrome conjugated eBio1-21 (1-21) is recommended for use in intracellular flow cytometry.).

Applications Tested: This eBio1-21 (1-21) antibody has been tested by western blot analysis of Daudi cell lysates and intracellular staining followed by flow cytometric analysis of Daudi cells. For flow cytometry, this can be used at less than or equal to 0.5 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.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

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