



Qty: 100 µg/200 µL

Mouse anti-TCL-1

Catalog No. 39-4800

Lot No.

Mouse anti-TCL-1

FORM

This monoclonal antibody is supplied as a 200 µL aliquot at a concentration of 0.5 mg/mL in PBS, pH 7.4, containing 0.1% sodium azide. This antibody is highly purified from mouse ascites by protein A chromatography.

CLONE: 1-21

ISOTYPE: Mouse IgG_{2b}-kappa

IMMUNOGEN

Recombinant full-length human TCL-1A protein

SPECIFICITY

This antibody is specific for the human TCL-1 (T cell leukemia-1) protein. On Western blots, it identifies the target band at ~14 kDa.

REACTIVITY

Reactivity has been confirmed with human Nalm-6 cell lysates by Western blotting, immunofluorescence, and immunoprecipitation and with formalin-fixed, paraffin-embedded human tonsil and lymph node tissue by immunohistochemistry.

Sample	ELISA	Immuno-histochemistry (paraffin)	Immuno-precipitation	Immuno-fluorescence	Western Blotting
Human	ND	+++	+++	+++	+++
Immunogen	+++	ND	ND	ND	ND

(Excellent +++, Good++, Poor +, No reactivity 0, Not applicable N/A, Not Determined ND)

USAGE

Working concentrations for specific applications should be determined by the investigator. Appropriate concentrations will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature and length of incubations, etc. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

ELISA: 0.1-1.0 µg/mL
Immunohistochemistry (paraffin): 10-20 µg/mL
Immunoprecipitation: 50 µg/mL
Immunofluorescence: 5 µg/mL
Western Blotting: 1-3 µg/mL

STORAGE

Store at 2-8°C for up to one month. Store at -20°C for long-term storage. Avoid repeated freezing and thawing.

(cont'd)

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PI394800

(Rev 10/08) DCC-08-1089

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BACKGROUND

The T cell leukemia-1 oncogene (*TCL-1*) was first identified by its involvement in chromosomal translocations or inversions affecting its site on chromosome 14q32.1 and its concurrent constitutive activation in prolymphocytic T cell leukemias (T-PLL).¹ *TCL-1* increases Akt kinase activity both *in vitro* and *in vivo*, and as a consequence enhances substrate phosphorylation. Thus, *TCL-1* is a novel Akt kinase co-activator, which promotes Akt-induced cell survival and proliferation.²

TCL-1 is expressed at high levels in pre-B cells and immature thymocytes, and at low levels in activated T cells.³ No expression of *TCL-1* was observed in cell lines derived from normal human tissues. Ataxia telangiectasia patients with chromosome 14 rearrangements show expression of *TCL-1* in leukemic T cells.⁴ Similarly, the murine homolog of *TCL-1* is expressed early in embryonic development in immature T and B cells.⁵

REFERENCES

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 Laine J, et al. *J Biol Chem* 277(5):3743-3751, 2002.
 Du Bois GC, et al. *Protein Expr Purif* 12(2):215-225, 1998.
 Thick J, et al. *Oncogene* 12(2):379-386, 1996.
 Narducci MG, et al. *Oncogene* 15(8):919-926, 1997.

RELATED PRODUCTS

Product	Conjugate	Cat. No.
Protein A	Sepharose [®] 4B	10-1041
rec-Protein G	Sepharose [®] 4B	10-1241

Conjugate	ZyMAX[™] Goat x Rabbit IgG (H+L)	ZyMAX[™] Goat x Mouse IgG (H+L)
Purified	81-6100	81-6500
FITC	81-6111	81-6511
TRITC	81-6114	81-6514
Cy [™] 3	81-6115	81-6515
Cy [™] 5	81-6116	81-6516
HRP	81-6120	81-6520
AP	81-6122	81-6522
Biotin	81-6140	81-6540

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