Revision 3

Store at -20C

#4042

TCL1 Antibody

Cell Signaling TECHNOLOGY®

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Endogenous	14	Rabbit	#P56279	8115

Product Usage Information

Application	Dilution
Western Blotting	1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

Specificity/Sensitivity

TCL1 Antibody detects endogenous levels of total TCL1.

Species predicted to react based on 100% sequence homology

Mouse

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the amino-terminal sequence of human TCL1. Antibodies are purified by protein A and peptide affinity chromatography.

Background

T cell leukemia 1 (TCL1), MTCP1, and TCL1b belong to the TCL1 proto-oncogene family, and their products are involved in Akt activation during embryonic development and several types of T-cell leukemias and B-cell lymphomas (1-3). The Akt association domain of TCL1 binds with the PH domain of Akt. The formation of an oligomeric TCL-Akt complex is required for TCL1 coactivator function and results in phosphorylation and activation of Akt. Furthermore, functional analysis indicates that the interaction between TCL1 and Akt promotes translocation of Akt to the nucleus (4-6). These findings are supported by the crystal structure of TCL1, which suggests that TCL1 may participate in molecular transport (7).

Background References

1. Narducci, M.G. et al. (2002) *Proc. Natl. Acad. Sci. USA* 99, 11712-11717.
2. Pekarsky, P. et al. (2001) *Oncogene* 20, 5638-5643.
3. Hoyer, K.K. et al. (2002) *Proc Natl Acad Sci U S A* 99, 14392-7.
4. Laine, J. et al. (2000) *Mol. Cell* 6, 395-407.
5. Laine, J. et al. (2002) *J. Biol. Chem.* 277, 3743-3751.
6. KŸnstle, G. et al. (2002) *Mol. Cell. Biol.* 22, 1513-1525.
7. Petock, J.M. et al. (2002) *Scientific World Journal* 2, 1876-1884.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human

Trademarks and Patents

Limited Uses

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