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Store at -20C
#4016

TCL1 (1-21) Mouse mAb

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

Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 14	Source/Isotype: Mouse IgG2b	UniProt ID: #P56279	Entrez-Gene Id: 8115
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Product Usage Information

Application

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

TCL1 (1-21) Mouse mAb detects endogenous levels of total TCL1 protein.

Species predicted to react based on 100% sequence homology

Monkey

Source / Purification

Monoclonal antibody is produced by immunizing animals with TCL1.

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

- Narducci, M.G. et al. (2002) *Proc. Natl. Acad. Sci. USA* 99, 11712-11717.
- Pekarsky, P. et al. (2001) *Oncogene* 20, 5638-5643.
- Hoyer, K.K. et al. (2002) *Proc Natl Acad Sci U S A* 99, 14392-7.
- Laine, J. et al. (2000) *Mol. Cell* 6, 395-407.
- Laine, J. et al. (2002) *J. Biol. Chem.* 277, 3743-3751.
- KYnstle, G. et al. (2002) *Mol. Cell. Biol.* 22, 1513-1525.
- 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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human

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