

#13533 Store at -20°C

TRIB2 (D8P2X) Rabbit mAb

Cell Signaling
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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:
WB, IP	H M	Endogenous	42	Rabbit IgG	#Q92519	28951

Product Usage Information

Application

Western Blotting

Dilution

1:1000

Immunoprecipitation

1:200

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

TRIB2 (D8P2X) Rabbit mAb recognizes endogenous levels of total TRIB2 protein. This antibody does not cross-react with other TRIBBLES family proteins.

Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant protein corresponding to full-length human TRIB2 protein.

Background

TRIBBLES proteins belong to a small family of serine-threonine kinase-like proteins characterized by the presence of a variant protein kinase motif (lacking a canonical ATP binding site), a MEK1 binding site, and a C-terminal COP1 site that binds ubiquitin ligase. The *tribbles* gene was first identified and characterized in *Drosophila* genetic screens for genes that regulate cell division, gastrulation, and oogenesis (1-3). Research studies in *Drosophila* suggested that TRIBBLES functions to coordinate cell division by regulating turnover of the cell cycle protein String/cdc25. In contrast to the *Drosophila* genome, which contains a single *tribbles* gene, the genomes of mice and humans encode three known TRIBBLES proteins (TRIB1-3), which exhibit both distinct and overlapping patterns of expression and functions (4). For example, TRIB1 and TRIB2, but not TRIB3, were reported to promote degradation of the basic region-leucine zipper transcription factor C/EBPα, a function that appears to be conserved from flies to humans (5,6). TRIB2 is overexpressed in a subset of human AML patient samples, downregulated in leukemic cells undergoing proliferation arrest (7), and positively regulated by the NOTCH signaling pathway in T cells (8), while retroviral-mediated overexpression of TRIB2 in mice was shown to induce transplantable leukemia (7). These findings collectively suggest that TRIB2 functions as an oncogene in the mammalian hematopoietic system (9).

Background References

1. Grosshans, J. and Wieschaus, E. (2000) *Cell* 101, 523-31.
2. Seher, T.C. and Leptin, M. (2000) *Curr Biol* 10, 623-9.
3. Mata, J. et al. (2000) *Cell* 101, 511-22.
4. Dobens, L.L. and Bouyain, S. (2012) *Dev Dyn* 241, 1239-48.
5. Dedhia, P.H. et al. (2010) *Blood* 116, 1321-8.
6. Rørth, P. et al. (2000) *Mol Cell* 6, 23-30.
7. Keeshan, K. et al. (2006) *Cancer Cell* 10, 401-11.
8. Hannon, M.M. et al. (2012) *Br J Haematol* 158, 626-34.
9. Liang, K.L. et al. (2013) *Blood* 121, 4265-70.

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

WB: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster
X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse
GP: Guinea Pig Rab: rabbit All: all species expected

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