TNK1 (C44F9) Rabbit mAb

Store at -20C

#4570

Cell Signaling TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H	Endogenous	72	Rabbit IgG	#Q13470	8711

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, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.

Specificity / Sensitivity

TNK1 (C44F9) Rabbit mAb detects endogenous levels of TNK1 protein. This antibody does not cross-react with other related proteins.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the sequence around Pro97 of human TNK1.

Background

Tyrosine kinase non-receptor 1 (TNK1) is related to the Ack1 (TNK2) non-receptor kinase that binds cdc42 and inhibits GTPase activity of this cell cycle regulator. TNK1 is broadly expressed in embryogenic tissues and leukemia cell lines, but is restricted to select adult tissues (1). TNK1 is a putative 72 kDa protein comprised of an N-terminal kinase domain, a central SH3 domain and a proline-rich tail. Interaction with PLCγ *in vitro* indicates a possible role in phospholipid signal transduction pathways (2). Though the exact mechanism is currently unclear, active TNK1 may play a role in regulating cell death by preventing TNF-α-induced NF-κB transactivation (3).

Background References

1. Hoehn, G.T. et al. (1996) *Oncogene* 12, 903-13.
2. Felschow, D.M. et al. (2000) *Biochem Biophys Res Commun* 273, 294-301.
3. Azoitei, N. et al. (2007) *Oncogene* 26, 6536-45.

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

WB: Western Blotting

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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