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#5638

Phospho-TNK1 (Tyr277) (D46E7) Rabbit mAb

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

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 72 TNK1, 58 TNK1-C17orf61	Source/Isotype: Rabbit IgG	UniProt ID: #Q13470	Entrez-Gene Id: 8711
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Product Usage Information	Application Western Blotting	Dilution 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	Phospho-TNK1 (Tyr277) (D46E7) Rabbit mAb detects endogenous levels of TNK1 protein only when the amplified gene product is phosphorylated at Tyr277.	
Species predicted to react based on 100% sequence homology	Mouse, Rat	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr277 of human TNK1 protein.	
Background	<p>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 <i>in vitro</i> 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).</p> <p>Phosphorylation of TNK1 on Tyr277 was identified at Cell Signaling Technology (CST) using PhosphoScan®, CST's LC-MS/MS platform for phosphorylation site discovery (4) and also reported independently in another publication using MS technology (5). Phosphorylation of TNK1 at Tyr277 was observed in select carcinoma cell lines and in tumors. A constitutively active, 58 kDa truncated TNK1 kinase resulting from fusion between the TNK1 and C17orf61 genes is seen in some cells (5). For additional information, visit PhosphoSitePlus™, CST's modification site knowledgebase, at www.phosphosite.org.</p>	
Background References	<ol style="list-style-type: none"> 1. Hoehn, G.T. et al. (1996) <i>Oncogene</i> 12, 903-13. 2. Felschow, D.M. et al. (2000) <i>Biochem Biophys Res Commun</i> 273, 294-301. 3. Azoitei, N. et al. (2007) <i>Oncogene</i> 26, 6536-45. 4. Rush, J. et al. (2005) <i>Nat Biotechnol</i> 23, 94-101. 5. Gu, T.L. et al. (2010) <i>Leukemia</i> 24, 861-5. 	
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	
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