

TNIK Antibody



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

Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 180	Source: Rabbit	UniProt ID: #Q9UKE5	Entrez-Gene Id: 23043	
Product Usage Information	Application				Dilution		
	Western Blotting				1:1000		
	Immunoprecipitation				1:50		
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						

Specificity / Sensitivity TNIK Antibody recognizes endogenous levels of total TNIK protein.

Species predicted to react based on 100% sequence homology:

Mouse, Rat

Source / Purification Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to

residues surrounding Arg567 of human TNIK protein. Antibodies are purified by protein A and peptide

affinity chromatography.

Background TNIK (Traf2 and Nck-Interacting Kinase) is a member of the germinal center kinase (GCK) family (1). TNIK

phosphorylates TCF4 and is an essential activator for Wnt signaling (2). Animal knockout model and kinase inhibition studies have reported that TNIK can stimulate both cancer cell growth and epithelial-mesenchymal transition (EMT) (3-5). TNIK has also been shown to promote F-actin disruption through its interactions with Rap2 (6). In neuronal cells, TNIK is enriched in the postsynaptic density (PSD), where it is reported to modulate neuronal recentor surface expression, dendrite complexity and signaling (7-9).

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Background References 1. Fu, C.A. et al. (1999) J Biol Chem 274, 30729-37.

2. Mahmoudi, T. et al. (2009) EMBO J 28, 3329-40.

3. Masuda, M. et al. (2016) Nat Commun 7, 12586.

4. Kim, J. et al. (2014) PLoS One 9, e110180.

5. Shitashige, M. et al. (2010) Cancer Res 70, 5024-33.

6. Taira, K. et al. (2004) J Biol Chem 279, 49488-96.

7. Hussain, N.K. et al. (2010) *J Neurosci* 30, 14786-94.

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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 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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Limited Uses

TNIK Antibody (#32712) Datasheet Without Images Cell Signaling Technology

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