

## TNiK

Cat.No. 290 003; Polyclonal rabbit antibody, 50 µg specific antibody (lyophilized)

### Data Sheet

Reconstitution/ Storage	50 µg specific antibody, lyophilized. Affinity purified with the immunogen. Rabbit serum albumin was added for stabilization. For reconstitution add 50 µl H <sub>2</sub> O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	<b>WB:</b> 1 : 1000 (AP staining) <b>IP:</b> not tested yet <b>ICC:</b> 1 : 500 <b>IHC:</b> not tested yet <b>IHC-P/FFPE:</b> not tested yet
Immunogen	Recombinant protein corresponding to AA 601 to 704 from mouse TNiK (UniProt Id: P83510)
Reactivity	Reacts with: rat, mouse (P83510). Other species not tested yet.
Specificity	Specific for TNiK.

**TO BE USED IN VITRO / FOR RESEARCH ONLY**  
**NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS**

Traf2- and Nck-interacting kinase (**TNiK**) is mainly expressed in muscle and brain. Upon overexpression it activates the c-Jun N-terminal kinase (JNK) pathway and leads to disruption of F-actin structure. In neurons TNiK has been shown to be postsynaptically enriched in dendrites, where it is involved in Rap2 mediated signal transduction regulating neuronal structure and GluA receptor function.

### Selected General References

TNiK is required for postsynaptic and nuclear signaling pathways and cognitive function.  
Coba MP, Komiyama NH, Nithianantharajah J, Kopanitsa MV, Indersmitten T, Skene NG, Tuck EJ, Fricker DG, Elsegood KA, Stanford LE, Afinowi NO, et al.  
The Journal of neuroscience : the official journal of the Society for Neuroscience (2012) 32(40): 13987-99.

MINK and TNiK differentially act on Rap2-mediated signal transduction to regulate neuronal structure and AMPA receptor function.  
Hussain NK, Hsin H, Haganir RL, Sheng M  
The Journal of neuroscience : the official journal of the Society for Neuroscience (2010) 30(44): 14786-94.

TNiK, a novel member of the germinal center kinase family that activates the c-Jun N-terminal kinase pathway and regulates the cytoskeleton.  
Fu CA, Shen M, Huang BC, Lasaga J, Payan DG, Luo Y  
The Journal of biological chemistry (1999) 274(43): 30729-37.