

# TNIK(S764) Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP22372a

## Product Information

---

<b>Application</b>	IHC-P-Leica, WB, E
<b>Primary Accession</b>	<a href="#">Q9UKE5</a>
<b>Reactivity</b>	Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB59089
<b>Calculated MW</b>	154943

## Additional Information

---

<b>Gene ID</b>	23043
<b>Other Names</b>	TRAF2 and NCK-interacting protein kinase, 2.7.11.1, TNIK, KIAA0551
<b>Target/Specificity</b>	This TNIK(S764) antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between amino acids from the human region of human TNIK(S764).
<b>Dilution</b>	IHC-P-Leica~~1:500 WB~~1:500 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	TNIK(S764) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

---

<b>Name</b>	TNIK ( <a href="#">HGNC:30765</a> )
<b>Synonyms</b>	KIAA0551
<b>Function</b>	Serine/threonine kinase that acts as an essential activator of the Wnt signaling pathway. Recruited to promoters of Wnt target genes and required to activate their expression. May act by phosphorylating TCF4/TCF7L2. Appears to act upstream of the JUN N- terminal pathway. May play a role in

the response to environmental stress. Part of a signaling complex composed of NEDD4, RAP2A and TNIK which regulates neuronal dendrite extension and arborization during development. More generally, it may play a role in cytoskeletal rearrangements and regulate cell spreading. Phosphorylates SMAD1 on Thr-322. Activator of the Hippo signaling pathway which plays a pivotal role in organ size control and tumor suppression by restricting proliferation and promoting apoptosis. MAP4Ks act in parallel to and are partially redundant with STK3/MST2 and STK4/MST2 in the phosphorylation and activation of LATS1/2, and establish MAP4Ks as components of the expanded Hippo pathway (PubMed:[26437443](#)).

#### Cellular Location

Nucleus. Cytoplasm. Recycling endosome. Cytoplasm, cytoskeleton.  
Note=Associated with recycling endosomes and the cytoskeletal fraction upon RAP2A overexpression

#### Tissue Location

Expressed ubiquitously. Highest levels observed in heart, brain and skeletal muscle. Expressed in normal colonic epithelia and colorectal cancer tissues.

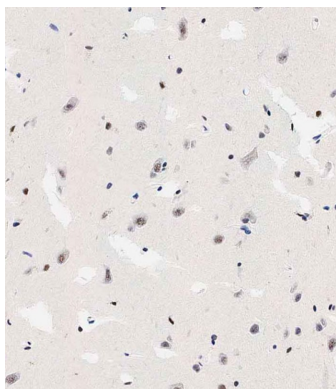
## Background

Serine/threonine kinase that acts as an essential activator of the Wnt signaling pathway. Recruited to promoters of Wnt target genes and required to activate their expression. May act by phosphorylating TCF4/TCF7L2. Appears to act upstream of the JUN N-terminal pathway. May play a role in the response to environmental stress. Part of a signaling complex composed of NEDD4, RAP2A and TNIK which regulates neuronal dendrite extension and arborization during development. More generally, it may play a role in cytoskeletal rearrangements and regulate cell spreading. Phosphorylates SMAD1 on Thr-322.

## References

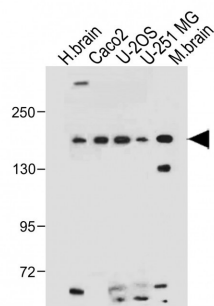
Fu C.A.,et al.J. Biol. Chem. 274:30729-30737(1999).  
Nagase T.,et al.DNA Res. 5:31-39(1998).  
Nakajima D.,et al.DNA Res. 9:99-106(2002).  
Ota T.,et al.Nat. Genet. 36:40-45(2004).  
Muzny D.M.,et al.Nature 440:1194-1198(2006).

## Images



Immunohistochemical analysis of paraffin-embedded human brain tissue using AP22372a performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.

All lanes : Anti-TNIK(S764) Antibody at 1:500 dilution Lane 1: Human brain tissue lysate Lane 2: Caco2 whole cell lysate Lane 3: U-2 OS whole cell lysate Lane 4: U-251 MG whole cell lysate Lane 5: Mouse brain tissue lysate Lysates/proteins at 20 µg per lane. Secondary Goat



Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 155 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.