

**TNIK Antibody (Internal)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS10902****Specification**

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**TNIK Antibody (Internal) - Product Information**

Application	IHC
Primary Accession	<a href="#">Q9UKE5</a>
Reactivity	Human, Mouse, Rabbit, Hamster, Monkey, Chicken, Horse, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	155kDa KDa

**TNIK Antibody (Internal) - Additional Information****Gene ID** 23043**Other Names**

TRAF2 and NCK-interacting protein kinase, 2.7.11.1, TNK1, KIAA0551

**Target/Specificity**

Human TNK1. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

**Reconstitution & Storage**

Long term: -70°C; Short term: +4°C

**Precautions**

TNK1 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

**TNIK Antibody (Internal) - Protein Information****Name** TNK1**Synonyms** KIAA0551**Function**

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 TNK1 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.

**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.

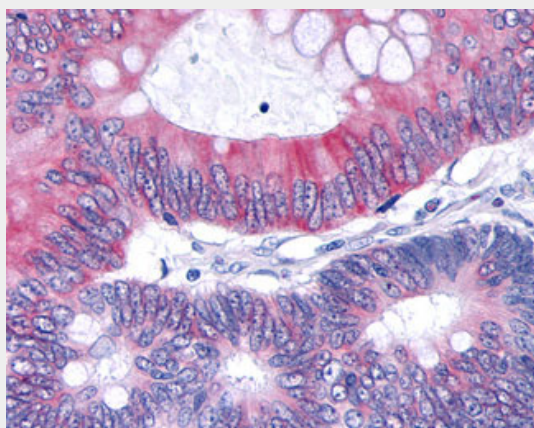
**Volume**

50  $\mu$ l

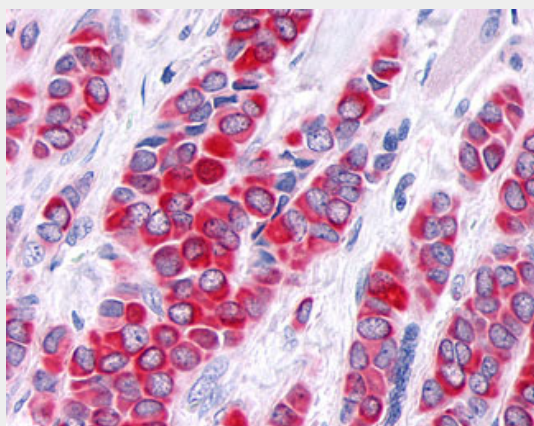
**TNIK Antibody (Internal) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

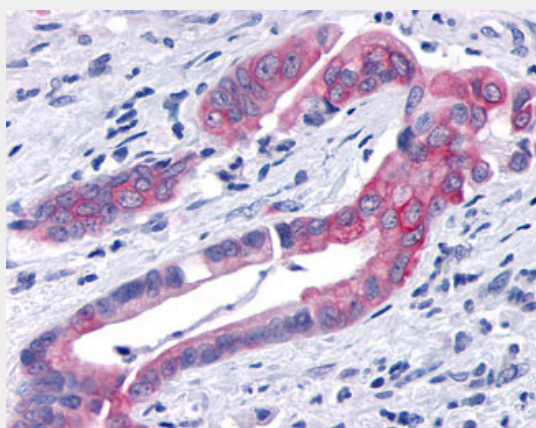
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**TNIK Antibody (Internal) - Images**

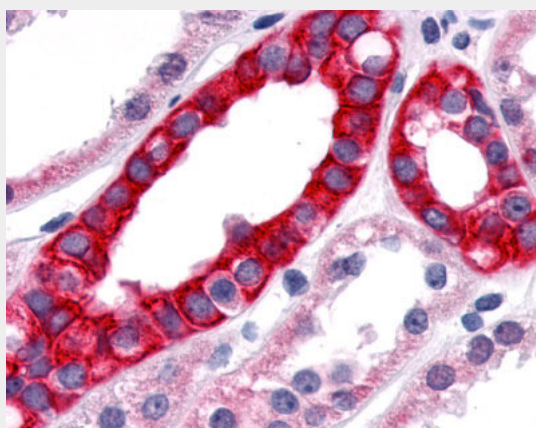
Anti-TNIK antibody IHC of human Colon, Carcinoma.



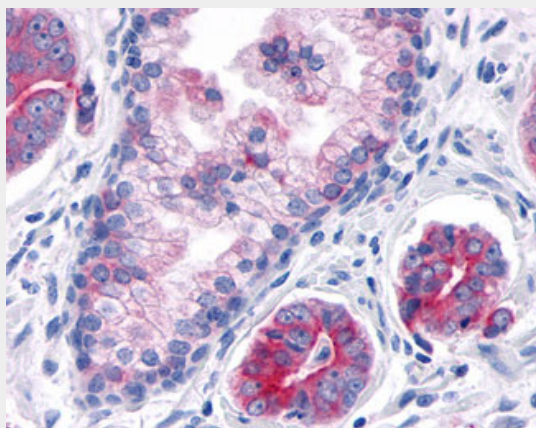
Anti-TNIK antibody IHC of human Breast, Carcinoma.



Anti-TNIK antibody IHC of human Pancreas, Carcinoma.



Anti-TNIK antibody ALS10902 IHC of human kidney.



Anti-TNIK antibody IHC of human Prostate, Carcinoma.

#### **TNIK Antibody (Internal) - 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.

**TNIK Antibody (Internal) - References**

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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).