

## **TNIK Antibody (Internal)**

Rabbit Polyclonal Antibody Catalog # ALS10903

#### **Specification**

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

Application IHC
Primary Accession O9UKE5

Reactivity Human, Monkey

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, TNIK, KIAA0551

## Target/Specificity

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

#### **Reconstitution & Storage**

Long term: -70°C; Short term: +4°C

#### **Precautions**

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

## **TNIK Antibody (Internal) - Protein Information**

Name TNIK (HGNC:30765)

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 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:<a href="http://www.uniprot.org/citations/26437443" target=" blank">26437443</a>).

#### **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.

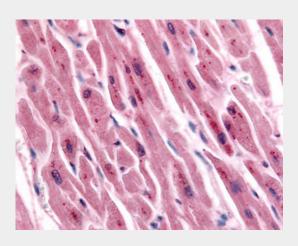
**Volume** 50 μl

#### **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
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

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



Anti-TNIK antibody ALS10903 IHC of human heart.

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

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# **TNIK Antibody (Internal) - 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).