

TNIK Antibody (Internal)

Rabbit Polyclonal Antibody Catalog # ALS10903

Specification

TNIK Antibody (Internal) - Product Information

Application
Primary Accession
Reactivity
Host
Clonality
Calculated MW

IHC-P, E

O9UKE5

Human, Monkey
Rabbit
Polyclonal
155kDa KDa
IHC-P~~N/A
E~~N/A

TNIK Antibody (Internal) - Additional Information

Gene ID 23043

Dilution

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: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.

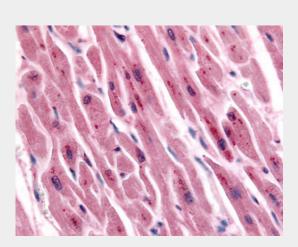
Volume 50 µl

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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Phosphorylates SMAD1 on Thr-322.

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).