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TNIK Antibody (Internal)
Rabbit Polyclonal Antibody
Catalog # ALS10903

Specification

TNIK Antibody (Internal) - Product Information

Application	**IHC**
Primary Accession	Q9UKE5
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

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.

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.

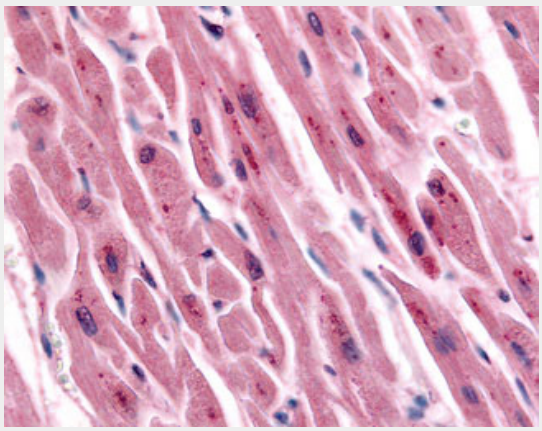
Volume
50 µl

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
- Immunoprecipitation
- 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).