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Phospho-TNIK-S769 Antibody Blocking Peptide
Synthetic peptide
Catalog # BP3277a

Specification

Phospho-TNIK-S769 Antibody Blocking Peptide - Product Information

Primary Accession Q9UKE5

Phospho-TNIK-S769 Antibody Blocking Peptide - Additional Information

Gene ID 23043

Other Names
TRAF2 and NCK-interacting protein kinase, TNIK, KIAA0551

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP3277a was selected from the region of human Phospho-TNIK-S769. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Phospho-TNIK-S769 Antibody Blocking Peptide - 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.

Phospho-TNIK-S769 Antibody Blocking Peptide - Protocols

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

- Blocking Peptides

Phospho-TNIK-S769 Antibody Blocking Peptide - Images

Phospho-TNIK-S769 Antibody Blocking Peptide - Background

TNIK is a stress-activated serine/threonine kinase that may play a role in the response to environmental stress. This protein appears to act upstream of the JUN N-terminal pathway, and may play a role in cytoskeletal regulation.

Phospho-TNIK-S769 Antibody Blocking Peptide - References

Taira, K., et al., J. Biol. Chem. 279(47):49488-49496 (2004).Fu, C.A., et al., J. Biol. Chem. 274(43):30729-30737 (1999).Yonekura, H., et al., Nucleic Acids Res. 27(13):2591-2600 (1999).