

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

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**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, TNK1, KIAA0551

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP3277a](/product/products/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** 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.

**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).