

Product datasheet

Anti-TNIK (phospho S769) antibody ab60032

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Overview

Product name	Anti-TNIK (phospho S769) antibody
Description	Rabbit polyclonal to TNIK (phospho S769)
Host species	Rabbit
Tested applications	Suitable for: ELISA, IHC-P, ICC/IF
Species reactivity	Reacts with: Human
Immunogen	A KLH-conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S769 of human TNIK.
Positive control	Human breast carcinoma tissue

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.09% Sodium azide Constituent: PBS
Purity	Immunogen affinity purified
Purification notes	This antibody is first purified by protein G affinity chromatography. Then, the antibody fraction is peptide affinity purified in a 2-step procedure with the control and phosphorylated peptides. The phospho-specific antibody is eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab60032 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ELISA		1/1000.
IHC-P		1/50 - 1/100.
ICC/IF		Use a concentration of 5 µg/ml.

Target

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.

Tissue specificity

Expressed ubiquitously. Highest levels observed in heart, brain and skeletal muscle. Expressed in normal colonic epithelia and colorectal cancer tissues.

Sequence similarities

Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily. Contains 1 CNH domain. Contains 1 protein kinase domain.

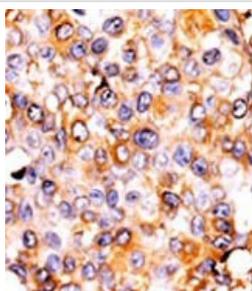
Post-translational modifications

Autophosphorylated. Autophosphorylation is activated by RAP2A and induces association to the cytoskeletal fraction.

Cellular localization

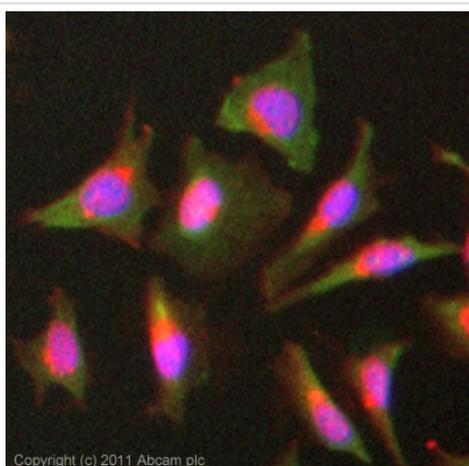
Nucleus. Cytoplasm. Recycling endosome. Cytoplasm > cytoskeleton. Associated with recycling endosomes and the cytoskeletal fraction upon RAP2A overexpression.

Images



Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with ab60032 at a dilution of 1/50. A peroxidase-conjugated secondary antibody was used, followed by AEC staining.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TNIK (phospho S769) antibody (ab60032)



Immunocytochemistry/ Immunofluorescence - Anti-TNIK (phospho S769) antibody (ab60032)

ICC/IF image of ab60032 stained HeLa cells. The cells were 4% PFA fixed (10mins) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab60032, 5µg/ml) overnight at +4°C. The secondary antibody (green) was **ab96899** Dylight 488 goat anti-rabbit IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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