

Product datasheet for **TA336453**

TBK1 Mouse Monoclonal Antibody [Clone ID: 108A429]

Product data:

Product Type:	Primary Antibodies
Clone Name:	108A429
Applications:	ICC/IF, IHC, IP, WB
Recommended Dilution:	Immunocytochemistry/ Immunofluorescence: 1:20, Immunohistochemistry: 1:10-1:500, Immunohistochemistry-Paraffin: 1:10-1:500, Western Blot: 1-2 ug/ml, Simple Western: 10 ug/ml, Knockout Validated, Immunoprecipitation
Reactivity:	Human, Mouse, Rat, Bovine, Canine
Host:	Mouse
Isotype:	IgG1, kappa
Clonality:	Monoclonal
Immunogen:	A synthetic peptide corresponding to amino acids 563-577 (YYQFKDKAERRLAYC) of human TBK1 was used as immunogen for this antibody (NP_037386).
Formulation:	PBS containing 0.05% BSA, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Protein G purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	TANK binding kinase 1
Database Link:	NP_037386 Entrez Gene 56480 Mouse Entrez Gene 299827 Rat Entrez Gene 29110 Human Q9UHD2



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Background: NF- κ B (nuclear factor κ B) is sequestered in the cytoplasm by I κ B family of inhibitory proteins that mask the nuclear localization signal of NF- κ B thereby preventing translocation of NF- κ B to the nucleus. External stimuli such as tumor necrosis factor or other cytokines results in phosphorylation and degradation of I κ B releasing NF- κ B dimers. NF- κ B dimer subsequently translocates to the nucleus and activates target genes. Synthesis of I κ B α is autoregulated. I κ B proteins are phosphorylated by I κ B kinase complex consisting of at least three proteins, IKK1/a, IKK2/b, and IKK3/g. IKK1/a and IKK2/b are phosphorylated by NF- κ B-inducing kinase (NIK) and MAP kinase kinase kinase-1 (MEKK1), respectively. Recently, a new IKK family member, TBK1 [(TANK-binding kinase), also known as NAK and T2K] has been identified. TANK (TRAF-associated NF- κ B activator) interacts with TBK1 and activates NF- κ B in a kinase dependent manner.

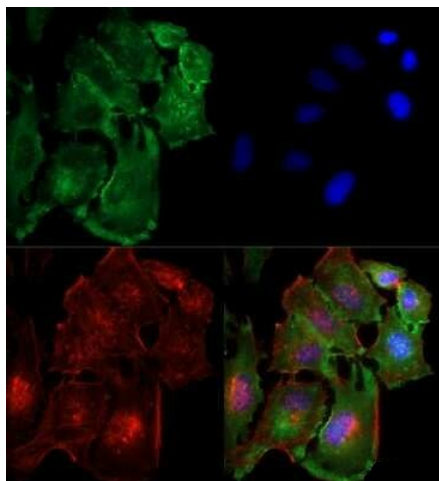
Synonyms: NAK; T2K

Note: In Western Blot this antibody detects a band at 80 kDa.

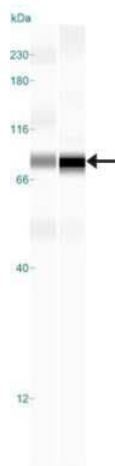
Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Cytosolic DNA-sensing pathway, RIG-I-like receptor signaling pathway, Toll-like receptor signaling pathway

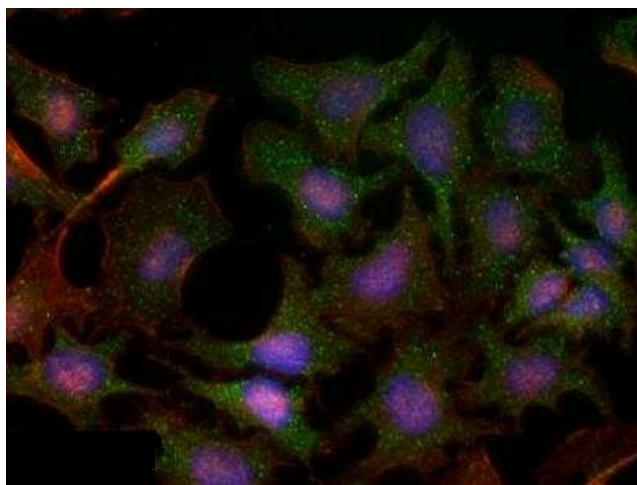
Product images:



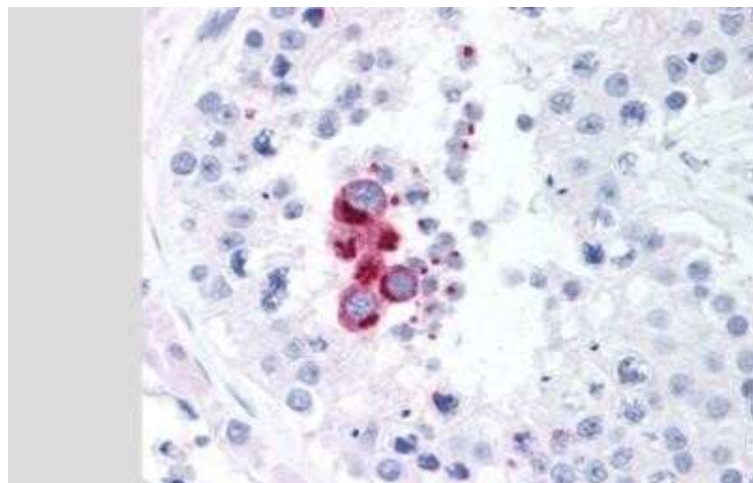
Immunocytochemistry/Immunofluorescence: TBK1 Antibody (108A429) TA336453 - Antibody was tested in HeLa cells with DyLight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and DyLight 550 (red). A dilution of 1:10 was used. Image objective 40x.



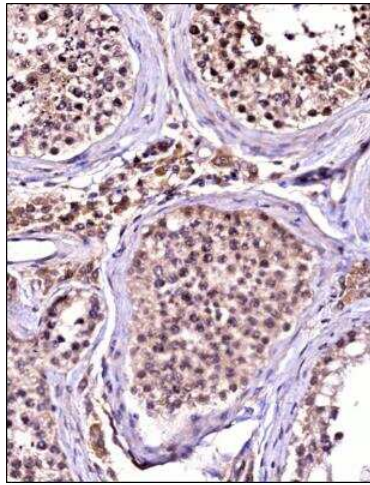
Simple Western: TBK1 Antibody (108A429) TA336453 - Lane view shows a specific band for NAK/TBK1 in 0.5 mg/ml of Daudi (left) and Raw 264.7 (right) lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system. * Non-specific interaction with the 230 kDa Simple Western standard may be seen with this antibody



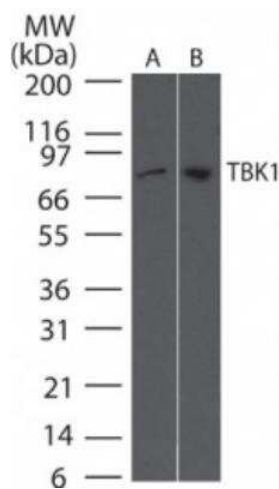
Immunocytochemistry/Immunofluorescence: TBK1 Antibody (108A429) TA336453 - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X PBS + 0.05% Triton X-100. The cells were incubated with anti-TBK1 at 20 ug/ml overnight at 4C and detected with an anti-mouse DyLight 488 (Green) at a 1:500 dilution. Actin was detected with Phalloidin 568 (Red) at a 1:200 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



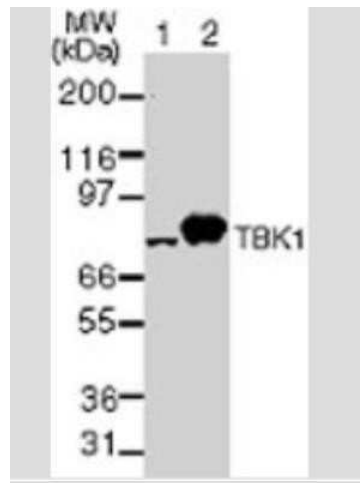
Immunohistochemistry-Paraffin: TBK1 Antibody (108A429) TA336453 - Immunohistochemistry: TBK1 Antibody (108A429) - Azide and BSA Free [NBP2-33243] - Staining on human testis (Formalin-Fixed Paraffin-Embedded (FFPE)) Image from the Azide and BSA Free version of this antibody.



Immunohistochemistry-Paraffin: TBK1 Antibody (108A429) TA336453 - Analysis of FFPE human testis tissue section using Peripheral Node Addressin antibody (clone MECA-79R) at 1:200. The staining was developed with HRP-DAB detection method and the counterstaining was performed using hematoxylin.



Western Blot: TBK1 Antibody (108A429) TA336453 - Analysis of Human Daudi (A) and mouse RAW (B) cell lysate probed with TBK1 antibody at 2 ug/ml.



Western Blot: TBK1 Antibody (108A429) TA336453 - Analysis using Azide and BSA Free version of TA336453. Lysate from 293 cells untransfected (lane 1) and transfected with human TBK1 cDNA (lane 2) probed with TBK1 antibody at 2 ug/ml.