

## Product datasheet for **TA336453**

### **TBK1 Mouse Monoclonal Antibody [Clone ID: 108A429]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	108A429
<b>Applications:</b>	IHC, WB
<b>Recommend Dilution:</b>	WB: 1-2 ug/ml, IF: 1:10, IHC: 1:10-1:500, IHC-P: 1:10-1:500
<b>Reactivity:</b>	Bovine, Canine, Human, Mouse, Rat
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1, kappa
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	A synthetic peptide corresponding to amino acids 563-577 (YYQFKDKKAERRLAYC) of human TBK1 was used as immunogen for this antibody (NP_037386).
<b>Formulation:</b>	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.
<b>Concentration:</b>	0.5 mg/ml
<b>Purification:</b>	Protein G purified
<b>Gene Name:</b>	TANK binding kinase 1
<b>Database Link:</b>	<a href="#">NP_037386</a> <a href="#">Entrez Gene 56480</a> <a href="#">MouseEntrez Gene 299827</a> <a href="#">RatEntrez Gene 29110</a> <a href="#">Human</a>
<b>Background:</b>	NF-kB (nuclear factor kB) is sequestered in the cytoplasm by IkB family of inhibitory proteins that mask the nuclear localization signal of NF-kB thereby preventing translocation of NF-kB to the nucleus. External stimuli such as tumor necrosis factor or other cytokines results in phosphorylation and degradation of IkB releasing NF-kB dimers. NF-kB dimer subsequently translocates to the nucleus and activates target genes. Synthesis of IkB $\alpha$ is autoregulated. IkB proteins are phosphorylated by IkB kinase complex consisting of at least three proteins, IKK1/a, IKK2/b, and IKK3/g. IKK1/a and IKK2/b are phosphorylated by NF-kB-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-kB activator) interacts with TBK1 and activates NF-kB in a kinase dependent manner.
<b>Synonyms:</b>	NAK; T2K



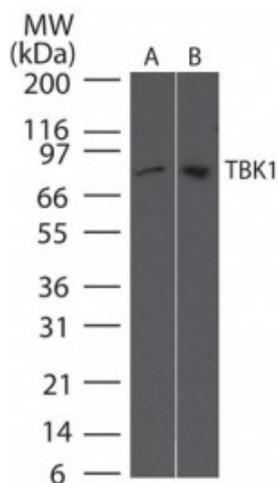
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**Note:** In Western Blot this antibody detects a band at 80 kDa.

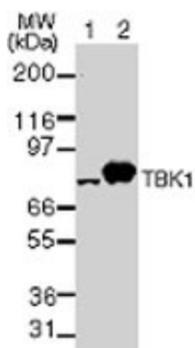
**Protein Families:** Druggable Genome, Protein Kinase

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

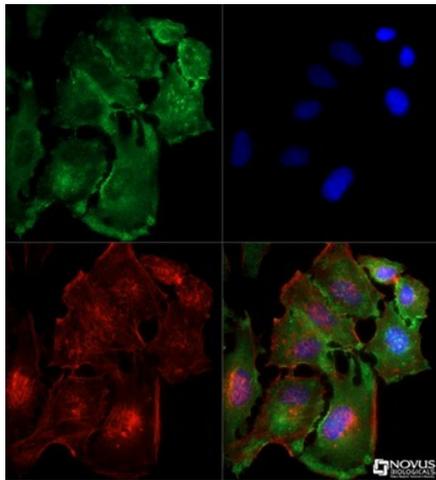
**Product images:**



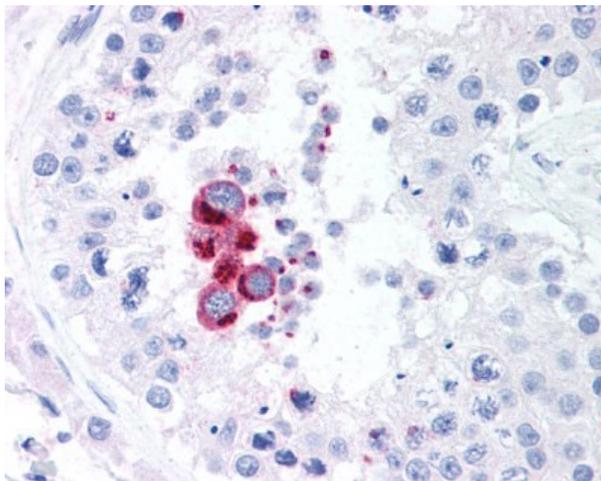
Western Blot: NAK Antibody (108A429) TA336453 - Analysis of TBK1 using TBK1 antibody. Human Daudi (A) and mouse RAW (B) cell lysate probed with TBK1 antibody at 2 ug/ml.



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



Immunohistochemistry: NAK Antibody (108A429) TA336453 - NAK 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



Immunohistochemistry-Paraffin: NAK Antibody (108A429) TA336453 - IHC on human testis (Formalin-Fixed Paraffin-Embedded (FFPE))