

Product datasheet for **TA306060**

TBK1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF
Recommended Dilution:	ICC: 10 ug/mL
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	NAK antibody was raised against a synthetic peptide corresponding to 17 amino acids form near the carboxy terminus of human NAK/TBK1.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Affinity chromatography purified via peptide column
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 29110 Human Q9UHD2



[View online »](#)

Background:

Nuclear factor kappa B (NF-kappaB) is a ubiquitous transcription factor and an essential mediator of gene expression during activation of immune and inflammatory responses. NF-kappaB mediates the expression of a great variety of genes in response to extracellular stimuli. NF-kappaB is associated with I-kappaB proteins in the cell cytoplasm, which inhibit NF-kappaB activity. Phosphorylation of I-kappaB by I-kappaB kinase (IKK) complex leads to degradation of I-kappaB and activation of NF-kappaB. The IKK complex contains IKKalpha, IKKbeta, and IKKgamma. A novel IKK related kinase was recently identified and designated TBK1 (TANK-binding kinase 1), NAK (NF-kappaB-activating kinase), and T2K (1-3). NAK/TBK1 activates IKKbeta through direct phosphorylation. NAK/TBK1 is activated by growth factors and PMA and mediates IKK and NF-kappaB activation in response to growth factors (2). NAK/TBK1 functions upstream of NIK and the IKK complex (1,2). NAK/TBK1 is also critical in protecting embryonic liver from apoptosis (3).

Synonyms:

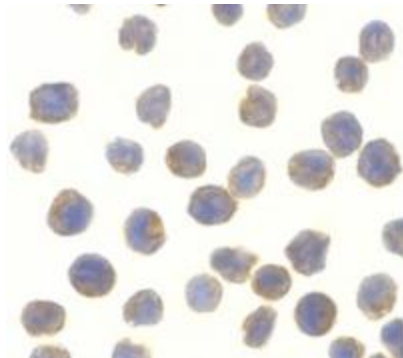
NAK; T2K

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 of NAK in MOLT4 cells with NAK antibody at 10 ug/mL.