

# TBK1/NAK Antibody

✓ 100 µl  
(10 Western mini-blots)

**Orders** ■ 877-616-CELL (2355)  
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This product is for *in vitro* research use only and is not intended for use in humans or animals.  
This product is not intended for use as a therapeutic or in diagnostic procedures.

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W, IP Endogenous	H, M, R, Mk	84 kDa	Rabbit**

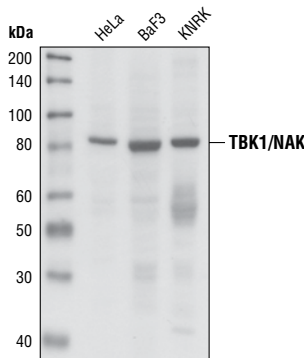
**Background:** TBK1 (TANK-binding kinase 1)/NAK (NF-κB activating kinase) is an IκB kinase (IKK)-activating kinase and can activate IKK through direct phosphorylation (1). TBK1 was identified through association with the TRAF binding protein, TANK and found to function upstream of NIK and IKK in the activation of NF-κB (2). TBK1/NAK induces IκB degradation and NF-κB activity through IKKβ. NAK may mediate IKK and NF-κB activation in response to growth factors that stimulate PKCε activity (1). TBK1 plays a pivotal role in the activation of IRF3 in the innate immune response (3).

**Specificity/Sensitivity:** TBK1 Antibody detects endogenous levels of total TBK1/NAK protein.

**Source/Purification:** Polyclonal antibodies are produced by immunizing animals with a synthetic peptide (KLH-coupled) corresponding to residues near the carboxy-terminus of TBK1/NAK. Antibodies were purified by protein A and peptide affinity chromatography.

**Background References:**

- (1) Tojima, Y. et al. (2000) *Nature* 404, 778–782.
- (2) Pomerantz, J.L. and Baltimore, D. (1999) *EMBO J.* 18, 6694–704.
- (3) Fitzgerald, K.A. et al. (2003) *Nat. Immunol.* 4, 491–6.



Western blot analysis of extracts from HeLa (human), BaF3 (mouse) and KNRK (rat) cell lines, using TBK1/NAK Antibody.

Entrez-Gene ID # 29110  
Swiss-Prot Acc. # Q9UHD2

**Storage:** Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

\*Species cross-reactivity is determined by Western blot.

\*\*Anti-rabbit secondary antibodies must be used to detect this antibody.

**Recommended Antibody Dilutions:**

Western blotting 1:1000  
Immunoprecipitation 1:100

For application specific protocols please see the web page for this product at [www.cellsignal.com](http://www.cellsignal.com).

**Companion Products:**

- Phospho-IKKα/β (Ser176/180) Antibody II #2694
- IKKγ (DA10-12) Mouse mAb #2695
- Phospho-NF-κB p65 (Ser536) (93H1) Rabbit mAb #3033
- Phospho-NF-κB p65 (Ser536) (7F1) Mouse mAb #3036
- Phospho-NF-κB p65 (Ser468) Antibody #3039
- IκB-α (44D4) Rabbit mAb #4812
- Phospho-NF-κB2 p100 (Ser864) Antibody #4881
- RelB Antibody #4954
- Phototope®-HRP Western Blot Detection System, Anti-rabbit IgG, HRP-linked Antibody #7071
- Anti-rabbit IgG, HRP-linked Antibody #7074
- Prestained Protein Marker, Broad Range (Premixed Format) #7720
- Biotinylated Protein Ladder Detection Pack #7727
- 20X LumiGLO® Reagent and 20X Peroxide #7003

Please visit [www.cellsignal.com](http://www.cellsignal.com) for a complete listing of recommended companion products.

**IMPORTANT: For Western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.**