

Store at
-20°C

#61223

PhosphoPlus® TBK1/NAK (Ser172) Antibody Duet



Cell Signaling
TECHNOLOGY®

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Entrez-Gene ID #29110
UniProt ID #Q9UHD2

rev. 05/26/20

For Research Use Only. Not For Use In Diagnostic Procedures.

Products Included	Product #	Quantity	Mol. Wt.	Isotype
P-TBK1/NAK (S172) (D52C2) XP® Rabbit mAb	5483	100 µl	84 kDa	Rabbit IgG
TBK1/NAK (E8I3G) Rabbit mAb	38066	100 µl	84 kDa	Rabbit IgG

See www.cellsignal.com for individual component applications, species cross-reactivity, dilutions and additional application protocols.

Description: PhosphoPlus® Duets from Cell Signaling Technology (CST) provide a means to assess protein activation status. Each Duet contains an activation-state and total protein antibody to your target of interest. These antibodies have been selected from CST's product offering based upon superior performance in specified applications.

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 induces IκB degradation and NF-κB activity through IKKβ. TBK1 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/NAK (D1B4) Rabbit mAb detects endogenous levels of total TBK1/NAK protein. Phospho-TBK1/NAK (Ser172) (D52C2) XP® Rabbit mAb detects endogenous levels of TBK1 only when phosphorylated at Ser172. This antibody may cross-react with phospho-IKKe.

Source/Purification: Monoclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human TBK1/NAK protein and a phosphopeptide corresponding to residues surrounding Ser172 of human TBK1/NAK protein.

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. *Do not aliquot the antibody.*

Background References:

- (1) Tojima, Y. et al. (2000) *Nature* 404, 778-82.
- (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.

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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide **Species Cross-Reactivity:** H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.