

**PhosphoPlus® TBK1/NAK (Ser172)  
Antibody Duet****Orders:** 877-616-CELL (2355)  
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**For Research Use Only. Not for Use in Diagnostic Procedures.****UniProt ID:** #Q9UHD2  
**Entrez-Gene Id:** 29110

Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
Phospho-TBK1/NAK (Ser172) (D52C2) XP® Rabbit mAb	5483	100 µl	84 kDa	Rabbit IgG
TBK1/NAK (E8I3G) Rabbit mAb	38066	100 µl	84 kDa	Rabbit IgG

Please visit [cellsignal.com](http://cellsignal.com) for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.**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.

**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**

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).

**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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