Revision 4

#14586 Store at +4C

Phospho-TBK1/NAK (Ser172) (D52C2) XP® Rabbit mAb (Alexa Fluor® 488 Conjugate)

Cell Signaling TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
FC-FP	H M R	Endogenous	Rabbit IgG	#Q9UHD2	29110

Product Usage Information

Application	Dilution
Flow Cytometry (Fixed/Permeabilized)	1:50

Storage

Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.

Specificity/Sensitivity

Phospho-TBK1/NAK (Ser172) (D52C2) XP® Rabbit mAb (Alexa Fluor® 488 Conjugate) detects endogenous levels of TBK1 only when phosphorylated at Ser172. This antibody may cross-react with phospho-IKKε.

Species predicted to react based on 100% sequence homology

Monkey, Xenopus, Bovine, Dog

Source / Purification

Monoclonal antibody is prepared from animals immunized with a synthetic phosphopeptide corresponding to residues surrounding Ser172 of human TBK1.

Description

This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 488 fluorescent dye and tested in-house for direct flow cytometric analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-TBK1/NAK (Ser172) (D52C2) XP® Rabbit mAb #5483.

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.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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