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Phospho-TBK1/NAK (Ser172) (D52C2) XP® Rabbit mAb (PÉ Conjugate)



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For Research Use Only. Not for Use in Diagnostic Procedures. Applications: Reactivity: Sensitivity: Source/Isotype: **UniProt ID:** Entrez-Gene Id: FC-FP HMEndogenous Rabbit IgG #Q9UHD2 29110 **Product Usage Application** Dilution Information Flow Cytometry (Fixed/Permeabilized) 1:50 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 **Storage** antibodies. Protect from light. Do not freeze. Phospho-TBK1/NAK (Ser172) (D52C2) XP® Rabbit mAb (PE Conjugate) recognizes endogenous levels of Specificity / Sensitivity TBK1 only when phosphorylated at Ser172. This antibody may cross-react with phospho-IKKs. Species predicted to Rat, Monkey, Xenopus, Bovine, Dog react based on 100% sequence homology: Monoclonal antibody is prepared from animals immunized with a synthetic phosphopeptide corresponding Source / Purification to residues surrounding Ser172 of human TBK1 protein. **Product Description** This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. The antibody is expected to exhibit the same species crossreactivity as the unconjugated Phospho-TBK1/NAK (Ser172) (D52C2) XP® Rabbit mAb #5483. TBK1 (TANK-binding kinase 1)/NAK (NF-кB activating kinase) is an IкB kinase (IKK)-activating kinase and **Background** 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-kB (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 PKCs activity (1). TBK1 plays a pivotal role in the

activation of IRF3 in the innate immune response (3).

1. Toiima, Y. et al. (2000) Nature 404, 778-82. **Background References**

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).

FC-FP: Flow Cytometry (Fixed/Permeabilized) **Applications Key**

Cross-Reactivity Key H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus 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

GP: Guinea Pig Rab: rabbit All: all species expected

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