Store at -20C

လို



Orders:	877-616-CELL (2355) orders@cellsignal.com
Support:	877-678-TECH (8324)
Web:	info@cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

## For Research Use Only. Not for Use in Diagnostic Procedures.

Phospho-TBK1/NAK (Ser172) (D52C2) XP<sup>®</sup> Rabbit mAb

Applications: F WB, IP, IF-IC, FC-FP	Reactivity: H M	Sensitivity: Endogenous	<b>MW (kDa):</b> 84	Source/Isotype: Rabbit IgG	UniProt ID: #Q9UHD2	Entrez-Gene Id: 29110		
Product Usage	Арр	Application Dilution						
Information	Wes	stern Blotting			1:	1000		
	Imm	nunoprecipitation			1:	50		
	Imm	nunofluorescence (I	Immunocytocher	nistry)	1:	50 - 1:100		
	Flow	v Cytometry (Fixed	/Permeabilized)		1:	50 - 1:200		
Storage	Supp 0.02 <sup>0</sup>	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
	For a	For a carrier free (BSA and azide free) version of this product see product #54382.						
Specificity / Sensitiv	ity Phos phos (Ser2 immu	Phospho-TBK1/NAK (Ser172) (D52C2) XP <sup>®</sup> Rabbit mAb detects endogenous levels of TBK1 only when phosphorylated at Ser172. This antibody may cross-react with phospho-IKKε. Phospho-TBK1/NAK (Ser172) (D52C2) XP <sup>®</sup> Rabbit mAb lacks sensitivity in fixed frozen mouse tissue by indirect immunofluorescent detection.						
Species predicted to react based on 100% sequence homology	Rat,	Monkey, Xenopus,	Bovine, Dog					
Source / Purification	Mone to res	Monoclonal antibody is prepared from animals immunized with a synthetic phosphopeptide corresponding to residues surrounding Ser172 of human TBK1.						
Background	TBK: can a TRA TBK: activ activ	TBK1 (TANK-binding kinase 1)/NAK (NF-κB activating kinase) is an IκB kinase (IKK)-activating kinase a 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 ( 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).						
	TBK: inclu	1 is phosphorylated ding the downstrea	l at Ser172 withir m phosphorylatio	n its activation loop, whic on of IRF3 (4,5).	ch is necessary for its l	kinase activity		
Background Referen	<b>CES</b> 1. To 2. Po 3. Fit 4. Kis 5. Mo	jima, Y. et al. (2000 omerantz, J.L. and I zgerald, K.A. et al. shore, N. et al. (200 cCoy, C.E. et al. (20	)) Nature 404, 77 Baltimore, D. (19 (2003) Nat Immi (2) J Biol Chem 2 (08) J Biol Chem	8-82. 99) EMBO J 18, 6694-7 Inol 4, 491-6. 277, 13840-7. 283, 14277-85.	04.			
Species Reactivity	Speci	es reactivity is dete	ermined by testing	g in at least one approve	ed application (e.g., we	estern blot).		
Western Blot Buffer	IMPO 0.1%	RTANT: For wester Tween® 20 at 4°C	n blots, incubate with gentle shak	membrane with diluted ing, overnight.	primary antibody in 59	% w/v BSA, 1X TBS,		
Applications Key	WB: FC-F	Western Blotting IF P: Flow Cytometry	<b>P:</b> Immunoprecip (Fixed/Permeab	itation <b>IF-IC:</b> Immunofluc ilized)	prescence (Immunocy	tochemistry)		
Cross-Reactivity Key	/							

3/23/24 1·25 PM	Phospho-TBK1/NAK (Ser172) (D52C2) XP® Rabbit mAb (#5483) Datasheet Without Images Cell Signaling T
5,25,24, 1.25 1 11	<ul> <li>Hispito (BCR) (BSECE) (All &amp; Respit mits (#5465) Batasheet Without integes cell signaling integes</li> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>
Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. XP is a registered trademark of Cell Signaling Technology, Inc. All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.
Limited Uses	Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.
	Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.