Phospho-IKKα (Ser176)/IKKβ (Ser177) (C84E11) Rabbit mAb



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

Applications: WB	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 85 (IKKalpha), 87 (IKKbeta)	Source/Isotype: Rabbit	UniProt ID: #O15111	Entrez-Gene Id 1147
Product Usage Information	-	oplication			Dilution	
	W	estern Blotting			1:1000	
Storage		•	**	5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than not aliquot the antibody.		
Specificity / Sensitivity		Phospho-IKK α (Ser176)/IKK β (Ser177) (C84E11) Rabbit mAb detects endogenous levels of IKK α and IKK β only when phosphorylated at Ser176 and Ser177, respectively.				
Species predicted react based on 100 sequence homolog	%	t, Monkey, Bovine				
Source / Purification		noclonal antibody is idues surrounding S		unizing animals with a	synthetic phosphopep	tide corresponding to
Background	The NF- κ B/Rel transcription factors are present in the cytosol in an inactive state, complexed with the inhibitory IkB proteins (1-3). Most agents that activate NF- κ B do so through a common pathway based phosphorylation-induced, proteasome-mediated degradation of IkB (3-7). The key regulatory step in the pathway involves activation of a high molecular weight IkB kinase (IKK) complex whose catalysis is generally carried out by three tightly associated IKK subunits. IKK α and IKK β serve as the catalytic subunits of the kinase and IKK γ serves as the regulatory subunit (8,9). Activation of IKK depends upor phosphorylation at Ser177 and Ser181 in the activation loop of IKK β (Ser176 and Ser180 in IKK α), who causes conformational changes, resulting in kinase activation (10-13).					n pathway based on ulatory step in this se catalysis is the catalytic K depends upon
Background Refero	2. E 3. F 4. E 5. E 6. T 7. C 8. Z	Beg, A.A. and Baldw	rin, A.S. (1993) Gei 94) Proc Natl Acad 5) Science 267, 14 . (1995) Mol Cell B al. (1995) EMBO J 96) Cell 84, 853-62 7) Cell 91, 243-52.	iol 15, 2809-18. 14, 2876-83.		

10. DiDonato, J.A. et al. (1997) Nature 388, 548-54. 11. Mercurio, F. et al. (1997) Science 278, 860-6. 12. Johnson, L.N. et al. (1996) Cell 85, 149-58. 13. Delhase, M. et al. (1999) Science 284, 309-13.

Species Reactivity

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

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

WB: Western Blotting **Applications Key**

3/23/24, 1:35 PM Phospho-IKKα (Ser176)/IKKβ (Ser177) (C84E11) Rabbit mAb (#2078) Datasheet Without Images Cell Signal...

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 Dq: dog Pq: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

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

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