

Phospho-IKKα/β (Ser176/180) (16A6) 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

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Applications: W, IHC-P, FC-FP	Reactivity: H M R Hm Mk	Sensitivity: Endogenous	MW (kDa): 85 IKK-alpha 87 IKK-beta	Source/Isotype: Rabbit IgG	UniProt ID: #O15111	Entrez-Gene Id 1147
Product Usage		Application Dilution				
Information		Western Blotting			1:1000	
		Immunohistochemis	stry (Paraffin)		1:75 - 1:3	300
		Flow Cytometry (Fixed/Permeabilized) 1:400 - 1:1600				
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.				
		For a carrier free (BS	A and azide free) vers	ion of this product see	product #36214.	
Specificity/Sensitivity		Phospho-IKK α / β (Ser176/180) (16A6) Rabbit mAb detects IKK α only when phosphorylated at Ser176/180 and IKK β only when phosphorylated at Ser177/181.				
Species predicted to react based on 100% sequence homology		Bovine				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser176/180 of human IKKα.				
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 on phosphorylation-induced, proteasome-mediated degradation of IkB (3-7). The key regulatory step in this 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 upon phosphorylation at Ser177 and Ser181 in the activation loop of IKK β (Ser176 and Ser180 in IKK α), which causes conformational changes, resulting in kinase activation (10-13).				
Background Re	eferences	1. Baeuerle, P.A. and Baltimore, D. (1988) <i>Science</i> 242, 540-6. 2. Beg, A.A. and Baldwin, A.S. (1993) <i>Genes Dev</i> 7, 2064-70. 3. Finco, T.S. et al. (1994) <i>Proc Natl Acad Sci USA</i> 91, 11884-8. 4. Brown, K. et al. (1995) <i>Science</i> 267, 1485-8. 5. Brockman, J.A. et al. (1995) <i>Mol Cell Biol</i> 15, 2809-18. 6. Traenckner, E.B. et al. (1995) <i>EMBO J</i> 14, 2876-83. 7. Chen, Z.J. et al. (1996) <i>Cell</i> 84, 853-62. 8. Zandi, E. et al. (1997) <i>Cell</i> 91, 243-52. 9. Karin, M. (1999) <i>Oncogene</i> 18, 6867-74. 10. DiDonato, J.A. et al. (1997) <i>Nature</i> 388, 548-54. 11. Mercurio, F. et al. (1997) <i>Science</i> 278, 860-6. 12. Johnson, L.N. et al. (1996) <i>Cell</i> 85, 149-58. 13. Delhase, M. et al. (1999) <i>Science</i> 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.

Applications Key

W: Western Blotting IHC-P: Immunohistochemistry (Paraffin) FC-FP: Flow Cytometry

(Fixed/Permeabilized)

Cross-Reactivity Key

H: Human M: Mouse R: Rat Hm: Hamster Mk: Monkey

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