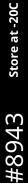
IKKβ (D30C6) Rabbit mAb Cell Signaling TECHNOLOGY* Orders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324)



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

Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 87	Source/Isotype: Rabbit IgG	UniProt ID: #O14920	Entrez-Gene Id: 3551
Product Usage Information	•	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100	
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.				
Specificity/Sensitivity		IKKβ (D30C6) Rabbit mAb recognizes endogenous levels of total IKKβ protein. This antibody does not cross-react with other IKK family members.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human IKK β protein.				
Background		The NF-κB/Rel transcription factors are present in the cytosol in an inactive state, complexed with the inhibitory IκB proteins (1-3). Most agents that activate NF-κB do so through a common pathway based on phosphorylation-induced, proteasome-mediated degradation of IκB (3-7). The key regulatory step in this pathway involves activation of a high molecular weight IκB kinase (IKK) complex whose catalysis is generally carried out by three tightly associated IKK subunits. IKKα and IKKβ serve as the catalytic subunits of the kinase and IKKγ serves as the regulatory subunit (8,9). Activation of IKK depends upon phosphorylation at Ser177 and Ser181 in the activation loop of IKKβ (Ser176 and Ser180 in IKKα), which causes conformational changes, resulting in kinase activation (10-13).				
Background References		 Baeuerle, P.A. and Baltimore, D. (1988) <i>Science</i> 242, 540-6. Beg, A.A. and Baldwin, A.S. (1993) <i>Genes Dev</i> 7, 2064-70. Finco, T.S. et al. (1994) <i>Proc Natl Acad Sci USA</i> 91, 11884-8. Brown, K. et al. (1995) <i>Science</i> 267, 1485-8. Brockman, J.A. et al. (1995) <i>Mol Cell Biol</i> 15, 2809-18. Traenckner, E.B. et al. (1995) <i>EMBO J</i> 14, 2876-83. Chen, Z.J. et al. (1997) <i>Cell</i> 91, 243-52. Karin, M. (1999) <i>Oncogene</i> 18, 6867-74. DiDonato, J.A. et al. (1997) <i>Nature</i> 388, 548-54. Mercurio, F. et al. (1997) <i>Science</i> 278, 860-6. Johnson, L.N. et al. (1996) <i>Cell</i> 85, 149-58. 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 IP: Immunoprecipitation				
Cross-Reactivity Key		H: Human M: Mouse R: Rat Mk: Monkey				
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