## **IKKβ Antibody**



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

Applications: W	Reactivity: H Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 87	Source/Isotype: Rabbit	<b>UniProt ID:</b> #O14920	Entrez-Gene Id: 3551
Product Usage Information	2	<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		IKK $\beta$ Antibody detects endogenous levels of total IKK $\beta$ protein. The antibody does not cross-react with endogenous levels of IKK $\alpha$ or IKK $\gamma$ .				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues at the carboxy terminus of human ΙΚΚβ. Antibodies are purified by protein A and peptide affinity chromatography.				
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 IKK $\beta$ serve as the catalytic subunits of the kinase and IKK $\gamma$ serves as the regulatory subunit (8,9). Activation of IKK depends upon phosphorylation at Ser177 and Ser181 in the activation loop of IKK $\beta$ (Ser176 and Ser180 in IKK $\alpha$ ), which causes conformational changes, resulting in kinase activation (10-13).				
Background References		1. Baeuerle, P.A. and E 2. Beg, A.A. and Baldw 3. Finco, T.S. et al. (1994. Brown, K. et al. (1995. Brockman, J.A. et al. (1996. Traenckner, E.B. et al. (1996. Zandi, E. et al. (1997. S. Zandi, E. et al. (1997. DiDonato, J.A. et al. (1997. DiDonato, J.A. et al. (1997. Johnson, L.N. et al. (1997. Delhase, M. et al. (1997. Delhase	vin, A.S. (1993) <i>Gen</i> 94) <i>Proc Natl Acad</i> 95) <i>Science</i> 267, 144 I. (1995) <i>Mol Cell Bi</i> al. (1995) <i>EMBO J</i> 1- 96) <i>Cell</i> 84, 853-62. 7) <i>Cell</i> 91, 243-52. acogene 18, 6867-7- II. (1997) <i>Nature</i> 38 (1997) <i>Science</i> 278, I. (1996) <i>Cell</i> 85, 149	nes Dev 7, 2064-70. Sci USA 91, 11884-8. 85-8. ol 15, 2809-18. 4, 2876-83. 4. 8, 548-54. 860-6. 9-58.		
Species Reactivity		Species reactivity is de	etermined by testir	ng in at least one approve	ed 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				

Cross-Reactivity Key H: Human Mk: Monkey

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