

#2694 Store at -20C

Phospho-IKK α / β (Ser176/180) Antibody II



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H M R Mk	Endogenous	85 IKK-alpha 87 IKK-beta	Rabbit	#O14920, #O15111	3551, 1147

Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	Phospho-IKK α / β (Ser176/180) Antibody II detects endogenous levels of IKK α and IKK β only when phosphorylated at Ser176 and Ser180 or Ser177 and Ser181, respectively.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a phosphopeptide corresponding to a region surrounding Ser177/181 of IKK β . Antibodies are purified by protein A and peptide affinity chromatography.	
Background	The NF- κ B/Rel transcription factors are present in the cytosol in an inactive state, complexed with the inhibitory I κ B proteins (1-3). Most agents that activate NF- κ B do so through a common pathway based on phosphorylation-induced, proteasome-mediated degradation of I κ B (3-7). The key regulatory step in this pathway involves activation of a high molecular weight I κ B 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 References	<ol style="list-style-type: none"> 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. (1996) <i>Cell</i> 84, 853-62. Zandi, E. 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	WB: Western Blotting
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 Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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