Phospho-ΙκΒε (Ser18/22) Antibody





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Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 45	Source/Isotype: Rabbit	UniProt ID: #000221	Entrez-Gene Id: 4794		
Product Usage Information	2	Application Western Blotting			Dilution 1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				ycerol. Store at –		
Specificity/Ser	sitivity	Phospho-ΙκΒε (Ser18/22) Antibody detects endogenous levels of ΙκΒε only when phosphorylated at serines 18 and 22. No cross-reactivity was detected with other family members at physiological conditions.						
Species predic based on 100% homology	ted to react sequence	Bovine, Dog						
Source / Purifi	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding serine 18/22 of human IĸBɛ. 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 IkB proteins (1-3). Activation occurs via phosphorylation of IkBα at Ser32 and Ser36 followed by proteasome-mediated degradation that results in the release and nuclear translocation of active NF- κB (3-7). IkBα phosphorylation and resulting Rel-dependent transcription are activated by a highly diverse group of extracellular signals including inflammatory cytokines, growth factors, and chemokines. Kinases that phosphorylate IkB at these activating sites have been identified (8). The regulation of IkBβ and IkBε is similar to that of IkBα. However, the phosphorylation and ubiquitin- mediated degradation of these proteins occurs with much slower kinetics (9). IKK phosphorylation of IkBβ occurs at Ser19 and Ser23, while IkBε can be phosphorylated at Ser18 and Ser22 (10).						
Background R	Inspace 1. Baeuerle, P.A. and Baltimore, D. (1988) Science 242, 540-6. 2. Beg, A.A. and Baldwin, A.S. (1993) Genes Dev 7, 2064-70. 3. Finco, T.S. et al. (1994) Proc Natl Acad Sci USA 91, 11884-8. 4. Brown, K. et al. (1995) Science 267, 1485-8. 5. Brockman, J.A. et al. (1995) Mol Cell Biol 15, 2809-18. 6. Traenckner, E.B. et al. (1995) EMBO J 14, 2876-83. 7. Chen, Z.J. et al. (1996) Cel/84, 853-62. 8. Karin, M. and Ben-Neriah, Y. (2000) Annu Rev Immunol 18, 621-63. 9. Hoffmann, A. et al. (2002) Science 298, 1241-5. 10. Shirane, M. et al. (1999) J Biol Chem 274, 28169-74.							
Species Reacti	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot E	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 K	ey	W: Western Blotting						
Cross-Reactivi	ty Key	H: Human M: Mouse R: Rat						
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