IκBβ (7B4) Mouse mAb



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

Applications: I WB	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 48	Source/Isotype: Mouse IgG1	UniProt ID: #Q15653	Entrez-Gene Id: 4793
Product Usage Information	Ар	plication		Dilution		
	We	stern Blotting			1:1000	
Storage	•	•		5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than not aliquot the antibody.		
Specificity / Sensitivity		IκBβ (7B4) Mouse mAb recognizes endogenous levels of total $IκBβ$ protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a recombinant protein specific to a carboxy terminal fragment of human $IkB\beta$ protein.				
Background	inhil prot 7). I of e pho The med	The NF- κ B/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 IkB α at Ser32 and Ser36 followed by proteasome-mediated degradation that results in the release and nuclear translocation of active NF- κ B (3-7). IkB α 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 IkB β and IkB ϵ is similar to that of IkB α . However, the phosphorylation and ubiquitin-mediated degradation of these proteins occurs with much slower kinetics (9). IKK phosphorylation of IkB β occurs at Ser19 and Ser23, while IkB ϵ can be phosphorylated at Ser18 and Ser22 (10).				
Background Referen	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. Karin, M. and Ben-Neriah, Y. (2000) <i>Annu Rev Immunol</i> 18, 621-63. 9. Hoffmann, A. et al. (2002) <i>Science</i> 298, 1241-5.					

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

 $\textbf{H:} \ \text{human} \ \textbf{M:} \ \text{mouse} \ \textbf{R:} \ \text{rat} \ \textbf{Hm:} \ \text{hamster} \ \textbf{Mk:} \ \text{monkey} \ \textbf{Vir:} \ \text{virus} \ \textbf{Mi:} \ \text{mink} \ \textbf{C:} \ \text{chicken} \ \textbf{Dm:} \ \textbf{D.} \ \text{melanogaster}$

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

10. Shirane, M. et al. (1999) J Biol Chem 274, 28169-74.

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