

**#7543** Store at -20°C

## IκBα (L35A5) Mouse mAb (Amino-terminal Antigen) (Biotinylated)


**Cell Signaling**  
TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H M R Mk B Pg	Endogenous	39	Mouse IgG1	#P25963	4792

Product Usage Information	Application	Dilution
	Western Blotting	1:1000
<b>Storage</b>	Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at -20°C. Do not aliquot the antibodies.	
<b>Specificity / Sensitivity</b>	IκBα (L35A5) Mouse mAb (Amino-terminal Antigen) (Biotinylated) detects endogenous levels of total IκBα protein.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a GST-IκBα fusion protein corresponding to the amino terminus of human IκBα protein.	
<b>Product Description</b>	This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The biotinylated antibody is expected to exhibit the same species cross-reactivity as the unconjugated IκBα (L35A5) Mouse mAb (Amino-terminal Antigen) #4814.	

MW (kDa)	39
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<b>Background</b>	The NF-κB/Rel transcription factors are present in the cytosol in an inactive state complexed with the inhibitory IκB proteins (1-3). Activation occurs via phosphorylation of IκBα at Ser32 and Ser36 followed by proteasome-mediated degradation that results in the release and nuclear translocation of active NF-κB (3-7). IκBα 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 IκB at these activating sites have been identified (8).
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Baeuerle, P.A. and Baltimore, D. (1988) <i>Science</i> 242, 540-6.</li> <li>2. Beg, A.A. and Baldwin, A.S. (1993) <i>Genes Dev</i> 7, 2064-70.</li> <li>3. Finco, T.S. et al. (1994) <i>Proc Natl Acad Sci USA</i> 91, 11884-8.</li> <li>4. Brown, K. et al. (1995) <i>Science</i> 267, 1485-8.</li> <li>5. Brockman, J.A. et al. (1995) <i>Mol Cell Biol</i> 15, 2809-18.</li> <li>6. Traenckner, E.B. et al. (1995) <i>EMBO J</i> 14, 2876-83.</li> <li>7. Chen, Z.J. et al. (1996) <i>Cell</i> 84, 853-62.</li> <li>8. Karin, M. and Ben-Neriah, Y. (2000) <i>Annu Rev Immunol</i> 18, 621-63.</li> </ol>

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	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.
<b>Applications Key</b>	<b>WB:</b> Western Blotting
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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