

**#5209** Store at -20C

## Phospho-IkB $\alpha$ (Ser32) (14D4) Rabbit mAb (Biotinylated)


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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H M R Mk	Endogenous	40	Rabbit IgG	#P25963	4792

<b>Product Usage Information</b>	<b>Application</b> Western Blotting	<b>Dilution</b> 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>	Phospho-IkB $\alpha$ (Ser32) (14D4) Rabbit mAb (Biotinylated) detects endogenous levels of IkB $\alpha$ only when phosphorylated at Ser32.	
<b>Species predicted to react based on 100% sequence homology:</b>	Chicken, Bovine, Dog, Pig, Guinea Pig	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser32 of human IkB $\alpha$ .	
<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 Phospho-IkB $\alpha$ (Ser32) (14D4) Rabbit mAb #2859.	

MW (kDa)

40

<b>Background</b>	The NF- $\kappa$ 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 $\alpha$ at Ser32 and Ser36 followed by proteasome-mediated degradation that results in the release and nuclear translocation of active NF- $\kappa$ B (3-7). IkB $\alpha$ 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).
<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

**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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