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IκBα (L35A5) Mouse mAb (Amino-terminal Antigen) (Pacific Blue™ Conjugate)

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

Applications: FC-FP	Reactivity: H M R Mk B Pg	Sensitivity: Endogenous	Source/Isotype: Mouse IgG1	UniProt ID: #P25963	Entrez-Gene Id: 4792
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Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized)	Dilution 1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.	
Specificity/Sensitivity	IκBα (L35A5) Mouse mAb (Amino-terminal Antigen) (Pacific Blue™ Conjugate) detects endogenous levels of total IκBα protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a GST-IκBα fusion protein corresponding to the amino-terminus of human IκBα protein.	
Description	This Cell Signaling Technology antibody is conjugated to Pacific Blue™ fluorescent dye and tested in-house for direct flow cytometry in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated antibody IκBα (L35A5) Mouse mAb (Amino-terminal Antigen) #4814.	
Background	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).	
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. Karin, M. and Ben-Neriah, Y. (2000) <i>Annu Rev Immunol</i> 18, 621-63. 	
Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).	
Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)	
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey B: Bovine Pg: Pig	
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