

Phospho-IKKα/β (Ser176/180) (16A6) Rabbit mAb (PE Conjugate)



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Applications: FC-FP	Reactivity: H M R Hm Mk	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #015111	Entrez-Gene Id: 1147
Product Usage Information		Application Flow Cytometry (Fixed/P	ermeabilized)		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 antibodies. Protect from light. Do not freeze.			
Specificity/Sensitivity		Phospho-IKKα/ β (Ser176/180) (16A6) Rabbit mAb (PE Conjugate) detects IKKα only when phosphorylated at Ser176/180 and IKK β only when phosphorylated at Ser177/181.			
Species predicte based on 100% : homology		Bovine			
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser176/180 of human IKK α protein.			
Description		This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-IKK α/β (Ser176/180) (16A6) Rabbit mAb #2697.			
Background		The NF- κ B/Rel transcription factors are present in the cytosol in an inactive state, complexed with the inhibitory IkB proteins (1-3). Most agents that activate NF- κ B do so through a common pathway based on phosphorylation-induced, proteasome-mediated degradation of IkB (3-7). The key regulatory step in this pathway involves activation of a high molecular weight IkB kinase (IKK) complex whose catalysis is generally carried out by three tightly associated IKK subunits. IKKa and IKK β serve as the catalytic subunits of the kinase and IKK γ serves as the regulatory subunit (8,9). Activation of IKK depends upon phosphorylation at Ser177 and Ser181 in the activation loop of IKK β (Ser176 and Ser180 in IKKa), which causes conformational changes, resulting in kinase activation (10-13).			
Background References		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. Zandi, E. et al. (1997) <i>Cell</i> 91, 243-52. 9. Karin, M. (1999) <i>Oncogene</i> 18, 6867-74. 10. DiDonato, J.A. et al. (1997) <i>Nature</i> 388, 548-54. 11. Mercurio, F. et al. (1997) <i>Science</i> 278, 860-6. 12. Johnson, L.N. et al. (1996) <i>Cell</i> 85, 149-58. 13. Delhase, M. et al. (1999) <i>Science</i> 284, 309-13.			

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 Hm: Hamster Mk: Monkey

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