

#54917  
Store at +4C**IKKα (3G12) Mouse mAb (PE Conjugate)**

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

<b>Applications:</b> FC-FP	<b>Reactivity:</b> H Mk	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Mouse IgG1	<b>UniProt ID:</b> #O15111	<b>Entrez-Gene Id:</b> 1147
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<b>Product Usage Information</b>	<b>Application</b> Flow Cytometry (Fixed/Permeabilized)	<b>Dilution</b> 1:50
<b>Storage</b>	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.	
<b>Specificity/Sensitivity</b>	IKKα (3G12) Mouse mAb (PE Conjugate) recognizes endogenous levels of total IKKα protein.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a recombinant protein specific to a fragment of human IKKα protein.	
<b>Description</b>	This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated IKKα (3G12) Mouse mAb #11930.	
<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). Most agents that activate NF-κB do so through a common pathway based on phosphorylation-induced, proteasome-mediated degradation of IκB (3-7). The key regulatory step in this pathway involves activation of a high molecular weight IκB kinase (IKK) complex whose catalysis is generally carried out by three tightly associated IKK subunits. IKKα and IKKβ serve as the catalytic subunits of the kinase and IKKγ serves as the regulatory subunit (8,9). Activation of IKK depends upon phosphorylation at Ser177 and Ser181 in the activation loop of IKKβ (Ser176 and Ser180 in IKKα), which causes conformational changes, resulting in kinase activation (10-13).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>Baeuerle, P.A. and Baltimore, D. (1988) <i>Science</i> 242, 540-6.</li> <li>Beg, A.A. and Baldwin, A.S. (1993) <i>Genes Dev</i> 7, 2064-70.</li> <li>Finco, T.S. et al. (1994) <i>Proc Natl Acad Sci USA</i> 91, 11884-8.</li> <li>Brown, K. et al. (1995) <i>Science</i> 267, 1485-8.</li> <li>Brockman, J.A. et al. (1995) <i>Mol Cell Biol</i> 15, 2809-18.</li> <li>Traenckner, E.B. et al. (1995) <i>EMBO J</i> 14, 2876-83.</li> <li>Chen, Z.J. et al. (1996) <i>Cell</i> 84, 853-62.</li> <li>Zandi, E. et al. (1997) <i>Cell</i> 91, 243-52.</li> <li>Karin, M. (1999) <i>Oncogene</i> 18, 6867-74.</li> <li>DiDonato, J.A. et al. (1997) <i>Nature</i> 388, 548-54.</li> <li>Mercurio, F. et al. (1997) <i>Science</i> 278, 860-6.</li> <li>Johnson, L.N. et al. (1996) <i>Cell</i> 85, 149-58.</li> <li>Delhase, M. et al. (1999) <i>Science</i> 284, 309-13.</li> </ol>	
<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).	
<b>Applications Key</b>	<b>FC-FP:</b> Flow Cytometry (Fixed/Permeabilized)	
<b>Cross-Reactivity Key</b>	<b>H:</b> Human <b>Mk:</b> Monkey	
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