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## IKK $\epsilon$ (D61F9) XP<sup>®</sup> Rabbit mAb (PE Conjugate)

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

<b>Applications:</b> FC-FP	<b>Reactivity:</b> M R	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q14164	<b>Entrez-Gene Id:</b> 9641
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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 antibody. Protect from light. Do not freeze.	
<b>Specificity/Sensitivity</b>	IKK $\epsilon$ (D61F9) XP <sup>®</sup> Rabbit mAb (PE Conjugate) recognizes endogenous levels of total IKK $\epsilon$ protein.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of mouse IKK $\epsilon$ protein.	
<b>Description</b>	This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in mouse cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated IKK $\epsilon$ (D61F9) XP <sup>®</sup> Rabbit mAb #3416.	
<b>Background</b>	The NF- $\kappa$ B/Rel transcription factors are present in the cytosol in an inactive state, complexed with the inhibitory I $\kappa$ B proteins (1-3). Most agents that activate NF- $\kappa$ B do so through a common pathway based on phosphorylation-induced, proteasome-mediated degradation of I $\kappa$ B (3-7). The key regulatory step in this pathway involves activation of a high molecular weight I $\kappa$ B kinase (IKK) complex whose catalysis is generally carried out by three tightly associated IKK subunits. IKK $\alpha$ and IKK $\beta$ serve as the catalytic subunits of the kinase and IKK $\gamma$ serves as the regulatory subunit (8,9). Activation of IKK depends upon phosphorylation at Ser177 and Ser181 in the activation loop of IKK $\beta$ (Ser176 and Ser180 in IKK $\alpha$ ), 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>M:</b> Mouse <b>R:</b> Rat	
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