## Phospho-IKKγ (Ser376) Antibody 6892



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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: W	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 50	<b>Source/Isotype:</b> Rabbit	UniProt ID: #Q9Y6K9	Entrez-Gene Id: 8517	
Product Usage Information		<b>Application</b> Western Blotting			Dilution 1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
<b>Specificity/Sensitivity</b> Phospho-IKKγ (Ser376) Antibody det at Ser376.		i) Antibody detects	letects endogenous levels of ΙΚΚγ protein only when phosphorylated				
Source / Purific	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser376 of human ΙΚΚγ protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background		The NF-κB/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-κB 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. 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). Activation of the NF-κB pathway by the T-cell lymphotrophic virus Tax protein or by TNF-α treatment leads to IKKβ-dependent phosphorylation of human IKKγ primarily at Ser376 (14). In mouse, mutation of the orthologous residue (Ser369) to alanine leads to enhanced IKKγ-mediated stimulation of IKKβ kinase activity (15).					
Background Re	eferences	<ol> <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. (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> <li>Carter, R. S. et al. (2003) <i>J. Biol. Chem.</i> 278, 19642-19648.</li> <li>Prajapati, S. and Gaynor, R.B. (2002) <i>J. Biol. Chem.</i> 277, 24331-24339.</li> </ol>					
Species Reactiv	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot B	Suffer		1PORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X 35, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications K	ey	W: Western Blotting					
Cross-Reactivit	су Кеу	H: Human					
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