IKKγ (DA10-12) Mouse mAb



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W	Reactivity: H R	Sensitivity: Endogenous	MW (kDa): 50	Source/Isotype: Mouse IgG1	UniProt ID: #Q9Y6K9	Entrez-Gene Id: 8517
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		IKKγ (DA10-12) Mouse mAb detects endogenous levels of total IKKγ protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with full length human GST-IKKγ protein.				
Background		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). 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 mice, mutation of the orthologous residue (Ser369) to alanine leads to enhanced IKKγ-mediated stimlulation of IKKβ kinase activity (15).				
Background References		 Baeuerle, P.A. and Baltimore, D. (1988) Science 242, 540-6. Beg, A.A. and Baldwin, A.S. (1993) Genes Dev 7, 2064-70. Finco, T.S. et al. (1994) Proc Natl Acad Sci USA 91, 11884-8. Brown, K. et al. (1995) Science 267, 1485-8. Brockman, J.A. et al. (1995) Mol Cell Biol 15, 2809-18. Traenckner, E.B. et al. (1995) EMBO J 14, 2876-83. Chen, Z.J. et al. (1996) Cell 84, 853-62. Zandi, E. et al. (1997) Cell 91, 243-52. Karin, M. (1999) Oncogene 18, 6867-74. DiDonato, J.A. et al. (1997) Nature 388, 548-54. Mercurio, F. et al. (1997) Science 278, 860-6. Johnson, L.N. et al. (1996) Cell 85, 149-58. Delhase, M. et al. (1999) Science 284, 309-13. Carter, R.S. et al. (2003) J Biol Chem 278, 19642-8. Prajapati, S. and Gaynor, R.B. (2002) J Biol Chem 277, 24331-9. 				

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween\$ 20 at 4°C with gentle shaking, overnight.

Applications Key W: Western Blotting

Cross-Reactivity Key H: Human R: Rat

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