IKKα (3G12) Mouse mAb



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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

Applications: WB, IF-IC	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 85	Source/Isotype: Mouse IgG1	UniProt ID: #O15111	Entrez-Gene Id 1147	
Product Usage Information	Ap	plication				Dilution	
	We	stern Blotting				1:1000	
	Imr	munofluorescence ((Immunocytochen	nistry)		1:3200	
Storage		•	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	7.5), 150 mM NaCl, 100 not aliquot the antibody		erol and less than	
	For	For a carrier free (BSA and azide free) version of this product see product #49706.					
Specificity / Sens	sitivity IKK	IKK α (3G12) Mouse mAb recognizes endogenous levels of total IKK α protein.					
Source / Purifica		oclonal antibody is ninal fragment of hu		nunizing animals with a r n.	ecombinant protein s	pecific to a carboxy-	
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 phosphorylation-induced, proteasome-mediated degradation of IκB (3-7). The key regulatory step in thi 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).					n pathway based on ulatory step in this se catalysis is s the catalytic KK depends upon	
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.							

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

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, Western Blot Buffer

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

WB: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry) **Applications Key**

8. Zandi, E. et al. (1997) Cell 91, 243-52. 9. Karin, M. (1999) Oncogene 18, 6867-74. 10. DiDonato, J.A. et al. (1997) Nature 388, 548-54. 11. Mercurio, F. et al. (1997) Science 278, 860-6. 12. Johnson, L.N. et al. (1996) Cell 85, 149-58. 13. Delhase, M. et al. (1999) Science 284, 309-13.

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key**

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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Limited Uses

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