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## IKKβ (L570) Antibody



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For Research Use O	nly. Not for Use in	Diagnostic Proc	edures.				
Applications: WB, IP	Reactivity: H M R Hm Mk B GP	Sensitivity: Endogenous	<b>MW (kDa):</b> 87	Source: Rabbit	UniProt ID: #O14920	Entrez-Gene Id: 3551	
Product Usage Information	Application			Dilution			
	Western Blotting			1:1000			
	Imr	Immunoprecipitation			1:50		
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity / Ser	nsitivity IKK	IKK $\beta$ (L570) Antibody detects endogenous levels of total IKK $\beta$ protein.					
Source / Purifica	resid	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu570 of IKK $\beta$ protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	inhit pho: path gen subi pho:	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).					
Background Re		<ol> <li>Baeuerle, P.A. and Baltimore, D. (1988) Science 242, 540-6.</li> <li>Beg, A.A. and Baldwin, A.S. (1993) Genes Dev 7, 2064-70.</li> </ol>					

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- 5. Brockman, J.A. et al. (1995) Mol Cell Biol 15, 2809-18.
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**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.

**Applications Key** WB: Western Blotting IP: Immunoprecipitation

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

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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