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NF-κB1 p105 Antibody Cell Signaling Orders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324) Web: web: info@cellsignal.com

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Applications: W, IP	Reactivity: H M R Mk Mi B Pg	Sensitivity: Endogenous	MW (kDa): 120	Source/Isotype: Rabbit	UniProt ID: #P19838	Entrez-Gene Id: 4790
Product Usag Information	<u>_</u> _	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50	
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.				
Specificity/Sensitivity		NF-кB1 p105 Antibody detects endogenous levels of total NF-кB1 p105 protein. It does not cross-react with the p50 subunit or other NF-кB family members.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino acids at the carboxy-terminus of human NF-κB1 p105. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Transcription factors of the nuclear factor κB (NF-κB)/Rel family play a pivotal role in inflammatory and immune responses (1,2). There are five family members in mammals: RelA, c-Rel, RelB, NF-κB1 (p105/p50), and NF-κB2 (p100/p52). Both p105 and p100 are proteolytically processed by the proteasome to produce p50 and p52, respectively. Rel proteins bind p50 and p52 to form dimeric complexes that bind DNA and regulate transcription. In unstimulated cells, NF-κB is sequestered in the cytoplasm by IκB inhibitory proteins (3-5). NF-κB-activating agents can induce the phosphorylation of IκB proteins, targeting them for rapid degradation through the ubiquitin-proteasome pathway and releasing NF-κB to enter the nucleus where it regulates gene expression (6-8). NIK and IKKα (IKK1) regulate the phosphorylation and processing of NF-κB2 (p100) to produce p52, which translocates to the nucleus (9-11). Following IKK-mediated phosphorylation of p105 NF-κB1 at multiple sites (Ser921, 923, 927, and 932) on its carboxy-terminus, SCFβ-TrCP mediated processing produces the 50 kDa active form p50 (12,13).				
Background	References	2. Baeuerle, P.A. and B 3. Haskill, S. et al. (199 4. Thompson, J.E. et al. 5. Whiteside, S.T. et al. 6. Traenckner, E.B. et a	altimore, D. (1996) 1) <i>Cell</i> 65, 1281-9. (1995) <i>Cell</i> 80, 573 (1997) <i>EMBO J</i> 16, I. (1995) <i>EMBO J</i> 14, 995) <i>Proc Natl Aca</i> 6) <i>Cell</i> 84, 853-62. (2001) <i>Science</i> 293 002) <i>EMBO J</i> 21, 53 1) <i>Mol Cell</i> 7, 401-9. I. (2001) <i>Mol Cell B</i>	9-82. 1413-26. , 2876-83. <i>d Sci USA</i> 92, 11259-63. , 1495-9. 75-85.	-79.	
Species React	tivity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting IP: Immunoprecipitation				
Cross-Reactivity Key		H: Human M: Mouse R: Rat Mk: Monkey Mi: Mink B: Bovine Pg: Pig				
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