4810

Phospho-NF-κB2 p100 (Ser866/870) Antibody



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Applications: W, IP	Reactivity: H M	Sensitivity: Transfected Only	MW (kDa): 110	Source/Isotype: Rabbit	UniProt ID: #Q00653	Entrez-Gene Id: 4791		
Product Usage Information	2	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		Phospho-NF-кB2 p100 (Ser866/870) Antibody detects transfected NF-кB2 p100 when phosphorylated at serines 866 and 870.						
Species predic based on 100% homology		Rat, Bovine, Dog						
Source / Purifi	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding serines 866/870 of NF-κB2 p100. Nomenclature refers to the human sequence (SwissProt# Q00653). This site is homologous to rat Ser864/868 (Q5U2Z4) and mouse Ser865/869 (Q9WTK5). 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 IkB inhibitory proteins (3-5). NF-κB-activating agents can induce the phosphorylation of IkB 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).						
Background R	eferences	 Baeuerle, P.A. and Henkel, T. (1994) <i>Annu Rev Immunol</i> 12, 141-79. Baeuerle, P.A. and Baltimore, D. (1996) <i>Cell</i> 87, 13-20. Haskill, S. et al. (1991) <i>Cell</i> 65, 1281-9. Thompson, J.E. et al. (1995) <i>Cell</i> 80, 573-82. Whiteside, S.T. et al. (1997) <i>EMBO J</i> 16, 1413-26. Traenckner, E.B. et al. (1995) <i>EMBO J</i> 14, 2876-83. Scherer, D.C. et al. (1995) <i>Proc Natl Acad Sci USA</i> 92, 11259-63. Chen, Z.J. et al. (1996) <i>Cell</i> 84, 853-62. Senftleben, U. et al. (2001) <i>Science</i> 293, 1495-9. Coope, H.J. et al. (2002) <i>EMBO J</i> 21, 5375-85. Xiao, G. et al. (2001) <i>Mol Cell</i> 7, 401-9. 						
Species Reacti	ivity	Species reactivity is det	ermined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot I	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 K	(ey	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivi	ty Key	H: Human M: Mouse						
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