

Phospho-NF-кВ p65 (Ser536) (E1Z1T) Mouse mAb



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Applications: W, IP	Sensitivity: Endogenous	MW (kDa): 65	Source/Isotype: Mouse IgG2b	UniProt ID: #Q04206	Entrez-Gene Id: 5970
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.			
Specificity/Sensitivity		Phospho-NF-кВ p65 (Ser536) (E1Z1T) Mouse mAb recognizes endogenous levels of NF-кВ p65 protein only when phosphorylated at Ser536.			
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser536 of human NF-кВ protein.			
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).			
Background References		 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>FMBO 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 Reactivit	h.,	Species reactivity is date	rmined by testing in at le	aset one approved an	pplication (e.g., western blot).

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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

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