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Cell Signaling NF-κB p65 (D14E12) XP[®] Rabbit TECHNOLOGY® Orders: Support:

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Applications: WB, W-S, IP, IHC-P, IF- IC, FC-FP, ChIP, ChIP- seq, C&R	Reactivity: H M R Hm Mk Dg	Sensitivity: Endogenous	MW (kDa): 65	Source/Isotype: Rabbit IgG	UniProt ID: #Q04206	Entrez-Gene Id: 5970	
Product Usage Information	For optimal ChIP and ChIP-seq results, use 5 μ I of antibody and 10 μ g of chromatin (approximately 4 x 10 ⁶ cells) per IP. This antibody has been validated using SimpleChIP [®] Enzymatic Chromatin IP Kits.						
	The CUT&RUN dilution was determined using CUT&RUN Assay Kit #86652.						
	Application				Dilution		
	Western Blotting				1:1000		
	Simple Western™				1:10 - 1:50		
	Immunoprecipitation				1:100		
	Immunohistochemistry (Paraffin)				1:400 - 1:1600		
	Immunofluorescence (Immunocytochemistry)				1:400	- 1:1600	
	Flow Cytometry (Fixed/Permeabilized)				1:400 - 1:1600		
	Chro	Chromatin IP				1:100	
	Chro	omatin IP-seq			1:100		
	CUT	&RUN			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.					
	For a carrier free (BSA and azide free) version of this product see product #69994.						
Specificity / Sens	Sitivity NF-κB p65 (D14E12) XP [®] Rabbit mAb recognizes endogenous levels of total NF-κB p65/RelA protein. It does not cross react with other NF-κB/Rel family members.					65/RelA protein. It	
Source / Purifica	ion Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu498 of human NF-κB p65/RelA protein.					sponding to	

3/23/24, 11:25 AM	NF-κB p65 (D14E12) XP® Rabbit mAb (#8242) Datasheet Without Images Cell Signaling Technology		
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 Referenc	 es 1. Baeuerle, P.A. and Henkel, T. (1994) Annu Rev Immunol 12, 141-79. 2. Baeuerle, P.A. and Baltimore, D. (1996) Cell 87, 13-20. 3. Haskill, S. et al. (1991) Cell 65, 1281-9. 4. Thompson, J.E. et al. (1995) Cell 80, 573-82. 5. Whiteside, S.T. et al. (1997) EMBO J 16, 1413-26. 6. Traenckner, E.B. et al. (1995) EMBO J 14, 2876-83. 7. Scherer, D.C. et al. (1995) Proc Natl Acad Sci USA 92, 11259-63. 8. Chen, Z.J. et al. (1996) Cell 84, 853-62. 9. Senftleben, U. et al. (2001) Science 293, 1495-9. 10. Coope, H.J. et al. (2002) EMBO J 21, 5375-85. 11. Xiao, G. et al. (2001) Mol Cell 7, 401-9. 		
Species Reactivity	Species reactivity is determined by testing in at least one approved 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	WB: Western Blotting W-S: Simple Western [™] IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized) ChIP: Chromatin IP ChIP-seq: Chromatin IP-seq C&R: CUT&RUN		
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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