

c-Rel (E8Z5Y) XP^{\otimes} Rabbit mAb (BSA and Azide Free)



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IHC-P, IF-IC, FC- FP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 78	Source/Isotype: Rabbit IgG	UniProt ID: #Q04864	Entrez-Gene Id 5966
Product Usage Information		This product is the carrier free version of product #82000. All data were generated using the same antibody clone in the standard formulation which contains BSA and glycerol.				
		This formulation is ideal for use with technologies requiring specialized or custom antibody labeling, including fluorophores, metals, lanthanides, and oligonucleotides. It is not recommended for ChIP, ChIP-seq, CUT&RUN or CUT&Tag assays. If you require a carrier free formulation for chromatin profiling, please contact us. Optimal dilutions/concentrations should be determined by the end user.				
		BSA and Azide Free antibodies are quality control tested by size exclusion chromatography (SEC) to determine antibody integrity.				
Formulation		Supplied in 1X PBS (10 mM $\rm Na_2HPO_4$, 3 mM KCl, 2 mM $\rm KH_2PO_4$, and 140 mM NaCl (pH 7.8)). BSA and Azide Free.				
		For standard formula	tion of this product	see product #82000		
Storage		Store at -20°C. This product will freeze at -20°C so it is recommended to aliquot into single-use vials to avoid multiple freeze/thaw cycles. A slight precipitate may be present and can be dissolved by gently vortexing. This will not interfere with antibody performance.				
Specificity/Sensitivity		c-Rel (E8Z5Y) XP [®] Rabbit mAb (BSA and Azide Free) recognizes endogenous levels of total c-Rel protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human c-Rel 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).				
		and carboxy-terminal cells by ΙκΒα and ΙκΒβ	transactivation dor 3. c-Rel expression is	nding domain, referred to mains. The c-Rel protein s highest in hematopoiet e cell function and patho	is typically inhibited tic cells with extens	d in unstimulated ive research
Background References		1. Baeuerle, P.A. and Henkel, T. (1994) <i>Annu Rev Immunol</i> 12, 141-79. 2. Baeuerle, P.A. and Baltimore, D. (1996) <i>Cell</i> 87, 13-20. 3. Haskill, S. et al. (1991) <i>Cell</i> 65, 1281-9. 4. Thompson, J.E. et al. (1995) <i>Cell</i> 80, 573-82. 5. Whiteside, S.T. et al. (1997) <i>EMBO J</i> 16, 1413-26. 6. Traenckner, E.B. et al. (1995) <i>EMBO J</i> 14, 2876-83. 7. Scherer, D.C. et al. (1995) <i>Proc Natl Acad Sci USA</i> 92, 11259-63. 8. Chen, Z.J. et al. (1996) <i>Cell</i> 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.

12. Gilmore, T.D. and Gerondakis, S. (2011) Genes Cancer 2, 695-711. 13. Fullard, N. et al. (2012) Int J Biochem Cell Biol 44, 851-60.

Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key W: Western Blotting IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence

(Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key H: Human

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