

NF-кВ p65 (D14E12) XP[®] Rabbit mAb (Alexa Fluor[®] 488 Conjugate)



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Applications: IF-IC, FC-FP	Reactivity: H M R Hm Mk Dg	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #Q04206	Entrez-Gene Id: 5970	
Product Usage Information	Ap Imi Flo	plication munofluorescence (Ir w Cytometry (Fixed/P	nmunocytochemistry) Permeabilized)		Dilution 1:800 1:50	
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.				
Specificity/Sensitivity		NF-кВ p65 (D14E12) XP [®] Rabbit mAb (Alexa Fluor [®] 488 Conjugate) recognizes endogenous levels of total NF-кВ p65/RelA protein. It does not cross react with other NF-кB/Rel family members.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu498 of human NF-кВ p65/RelA protein.				
Description		This Cell Signaling Technology antibody is conjugated to Alexa Fluor [®] 488 fluorescent dye and tested in-house for direct flow cytometric analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated NF-κB p65 (D14E12) XP [®] Rabbit mAb #8242.				
Background	Tra imr (p1 pro con cyto IкВ rele reg the	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>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 Reactivity		Species reactivity is determined by testing in at least one approved application (e.g., western blot).				
Applications Key		IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)				
Cross-Reactivity Key		H: Human M: Mouse R: Rat Hm: Hamster Mk: Monkey Dg: Dog				
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