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Phospho-NF- κ B p65 (Ser536) (93H1) Rabbit mAb (Alexa Fluor® 647 Conjugate)

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

Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
FC-FP	H M R Hm Mk Pg	Endogenous	Rabbit IgG	#Q04206	5970
Product Usage Information	Application				Dilution
	Flow Cytometry (Fixed/Permeabilized)				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	Phospho-NF-KappaB p65 (Ser536) (93H1) Rabbit mAb (Alexa Fluor® 647 Conjugate) detects NF-kappaB p65 only when phosphorylated at serine 536. It does not cross-react with the p50 subunit or other related proteins.				
Species predicted to react based on 100% sequence homology	Dog				
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser536 of human NF-kappaB p65. The antibody was conjugated to Alexa Fluor® 647 under optimal conditions with an F/P ratio of 2-6. The Alexa Fluor® 647 dye is maximally excited by red light (e.g. 633 nm He-Ne laser). Antibody conjugates of the Alexa Fluor® 647 dye produce bright far-red-fluorescence emission, with a peak at 665 nm.				
Description	Cell Signaling Technology Antibody conjugated to Alexa Fluor® 647 fluorescent dye and tested in-house for direct Flow Cytometric analysis of human cells. The unconjugated antibody, #3033, reacts with Phospho-NF-KappaB p65 (Ser536) from human, mouse, and rat. CST expects that Phospho-NF-KappaB p65 (Ser536) (93H1) Rabbit mAb (Alexa Fluor® 647 Conjugate) will also recognize Phospho-NF-KappaB p65 (Ser536) in these species.				
Background	Transcription factors of the nuclear factor κ B (NF- κ B)/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- κ B1 (p105/p50), and NF- κ B2 (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- κ B is sequestered in the cytoplasm by I κ B inhibitory proteins (3-5). NF- κ B-activating agents can induce the phosphorylation of I κ B proteins, targeting them for rapid degradation through the ubiquitin-proteasome pathway and releasing NF- κ B to enter the nucleus where it regulates gene expression (6-8). NIK and IKK α (IKK1) regulate the phosphorylation and processing of NF- κ B2 (p100) to produce p52, which translocates to the nucleus (9-11).				
Background References	<ol style="list-style-type: none"> 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 **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key **H:** Human **M:** Mouse **R:** Rat **Hm:** Hamster **Mk:** Monkey **Pg:** Pig

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