Phospho-NF-κB p65 (Ser536) (93H1) Rabbit mAb

Product Usage Information

**Applications:**
- WB, IP, IF-IC, F
- Reactivity: H M R Hm Mk Pg
- Sensitivity: Endogenous
- MW (kDa): 65
- Source/Igotype: Rabbit IgG
- Uniprot ID: Q04206
- Entrez-Gene Id: 5970

**Storage:**
Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.

**Specificity / Sensitivity:**
Phospho-NF-κB p65 (Ser536) (93H1) Rabbit mAb detects NF-κB p65 only when phosphorylated at Ser536. It does not cross-react with the p50 subunit or other related proteins.

**Species Reactivity:**
- Human, Mouse, Rat, Hamster, Monkey, Pig

**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-κB p65.

**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).

IMPORTANT: For primary antibodies recommended for western blotting applications, we recommend incubating the membrane with diluted antibody at 4°C with gentle shaking overnight. Please refer to the western blot protocol found on the product web page for the antibody-specific diluent recommendation.

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

**APPLICATIONS KEY**
- WB: Western Blot
- IP: Immunoprecipitation
- IHC: Immunohistochemistry
- ChIP: Chromatin Immunoprecipitation
- IF: Immunofluorescence
- F: Flow Cytometry
- ELISA: Enzyme-Linked Immunosorbent Assay

**CROSS-REACTIVITY KEY**
- H: human
- M: mouse
- R: rat
- Hm: hamster
- Mm: monkey
- Mk: mink
- C: chicken
- Dm: D. melanogaster
- X: Xenopus
- Z: zebrafish
- B: bovine
- D: dog
- P: pig
- Sc: S. cerevisiae
- Ce: C. elegans
- H: horse
- All: all species expected

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**Limited Uses**

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