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## 35-1013: Polyclonal Antibody to NFkB-p65 (Phospho-Ser536)

Clonality: Polyclonal Application: WB,IHC,IF

**Reactivity:** Human, Mouse, Rat

Gene : RELA
Gene ID : 5970
Uniprot ID : Q04206
Format : Purified

**Alternative Name:** NFKB3, RELA, TF65, Transcription factor p65, p65

**Isotype:** Rabbit IgG

Immunogen Information: Peptide sequence around phosphorylation site of serine 536 (F-S-S(p)-I-A) derived from

Human NFkB-p65.

## **Description**

NF-kappa-B is a pleiotropic transcription factor which is present in almost all cell types and is involved in many biological processed such as inflammation, immunity, differentiation, cell growth, tumorigenesis and apoptosis. NF-kappa-B is a homoor heterodimeric complex formed by the Rel-like domain-containing proteins RELA/p65, RELB, NFKB1/p105, NFKB1/p50, REL and NFKB2/p52 and the heterodimeric p65-p50 complex appears to be most abundant one. The dimers bind at kappa-B sites in the DNA of their target genes and the individual dimers have distinct preferences for different kappa-B sites that they can bind with distinguishable affinity and specificity. Different dimer combinations act as transcriptional activators or repressors, respectively. NF-kappa-B is controlled by various mechanisms of post-translational modification and subcellular compartmentalization as well as by interactions with other cofactors or corepressors. NF-kappa-B complexes are held in the cytoplasm in an inactive state complexed with members of the NF-kappa-B inhibitor (I-kappa-B) family. In a conventional activation pathway, I-kappa-B is phosphorylated by I-kappa-B kinases (IKKs) in response to different activators, subsequently degraded thus liberating the active NF-kappa-B complex which translocates to the nucleus. NF-kappa-B heterodimeric p65p50 and p65-c-Rel complexes are transcriptional activators. The NF-kappa-B p65-p65 complex appears to be involved in invasin-mediated activation of IL-8 expression. The inhibitory effect of I-kappa-B upon NF-kappa-B the cytoplasm is exerted primarily through the interaction with p65. p65 shows a weak DNA-binding site which could contribute directly to DNA binding in the NF-kappa-B complex. Doyle S L, et al. (2005) | Biol Chem. 280(25): 23496-23501. Anwar K N, et al. (2004) | Immunol. 173(11): 6965-6972. Baeuerle P A, et al. (1994) Annu Rev Immunol. 12:141-179. Baeuerle P A, et al. (1996) Cell 87:13-20. Haskill S, et al. (1991) Cell 65:1281-1289.

## **Product Info**

**Amount :** 50 μl / 100 μl

Content: Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM

NaCl, 0.02% sodium azide and 50% glycerol.

**Storage condition :** Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid

repeated freeze and thaw cycles.

## **Application Note**

Predicted MW: 65kd, Western blotting: 1:500~1:1000, Immunohistochemistry: 1:50~1:100, Immunofluorescence:

1:100~1:200



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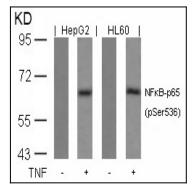


Figure 1: Western blot analysis of extracts from HepG2 and HL60 cells untreated or treated with TNF using NFkB-p65(Phospho-Ser536) Antibody 35-1013.

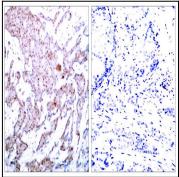


Figure 2: Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using NF?B-p65 (Phospho-Ser536) Antibody 35-1013 (left) or the same antibody preincubated with blocking peptide 51014 (right).

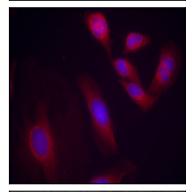


Figure 3: Immunofluorescence staining of methanol-fixed Hela cells using NFkB-p65(Phospho-Ser536) Antibody 35-1013 .



Figure 4: Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using NF?B-p65 (Phospho-Ser536) Antibody 35-1013 .



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Figure 5 : Immunohistochemical analysis of paraffin-embedded human Lung carcinoma tissue using NF?B-p65 (Phospho-Ser536) Antibody 35-1013 .

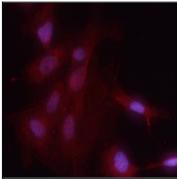


Figure 6 : Immunofluorescence staining of methanol-fixed MEF cells using NF?B-p65 (Phospho-Ser536) Antibody 35-1013.