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35-1369: Polyclonal Antibody to NFkB -p65 (Ab-435)

Clonality :	Polyclonal
Application :	WB,IHC
Reactivity :	Human,Mouse,Rat,Mk
Gene :	RELA
Uniprot ID :	Q04206
Format :	Purified
Alternative Name :	NFKB3, RELA, TF65, Transcription factor p65, p65
Isotype :	Rabbit IgG
Immunogen Information :	Peptide sequence around aa.433~437 (E-G-T-L-S) 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 homo- or 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 p65-p50 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 Yeh PY, et al. (2004) J Biol Chem.

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

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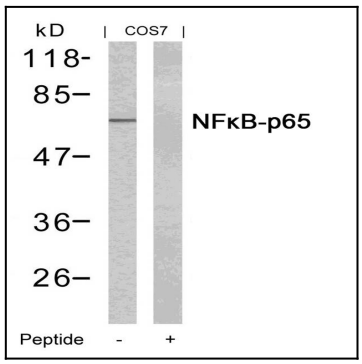

Figure 1: Western blot analysis of extracts from COS7 cells using NFkB -p65(Ab-435) Antibody 35-1369 and the same antibody preincubated with blocking peptide.

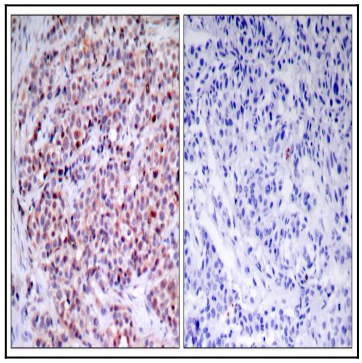

Figure 2: Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using NFkB -p65(Ab-435) Antibody 35-1369 (left) or the same antibody preincubated with blocking peptide(right).