

NFkB-p65(Phospho-Ser536) Antibody

Catalog No: #11014



Package Size: #11014-1 50ul #11014-2 100ul

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Description

| | |
|-----------------------|---|
| Product Name | NFkB-p65(Phospho-Ser536) Antibody |
| Host Species | Rabbit |
| Clonality | Polyclonal |
| Purification | Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide. |
| Applications | WB IHC IF |
| Species Reactivity | Hu Ms Rt |
| Specificity | The antibody detects endogenous level of NF-kB p65 only when phosphorylated at serine 536. |
| Immunogen Type | Peptide-KLH |
| Immunogen Description | Peptide sequence around phosphorylation site of serine 536 (F-S-S(p)-I-A) derived from Human NFkB-p65. |
| Target Name | NFkB-p65 |
| Modification | Phospho |
| Other Names | NFKB3; RELA; TF65; Transcription factor p65; p65 |
| Accession No. | Swiss-Prot: Q04206NCBI Protein: NP_001138610.1 |
| Concentration | 1.0mg/ml |
| Formulation | Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Storage | Store at -20°C for long term preservation (recommended). Store at 4°C for short term use. |

Application Details

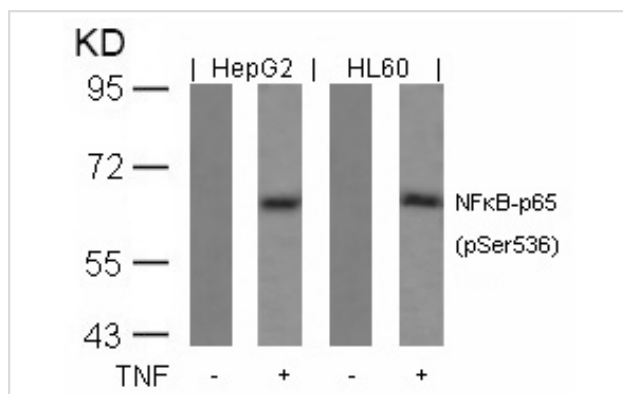
Predicted MW: 65kd

Western blotting: 1:500~1:1000

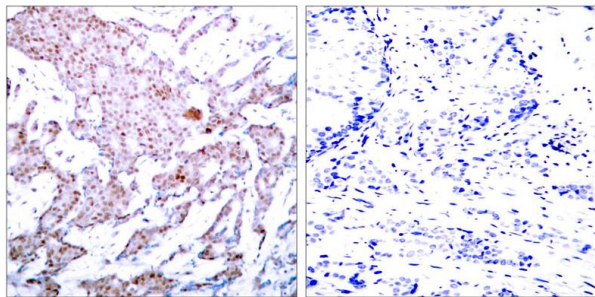
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

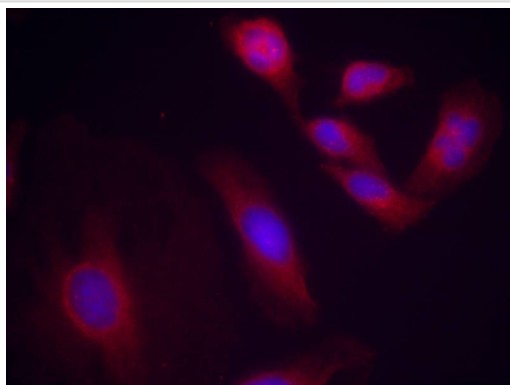
Images



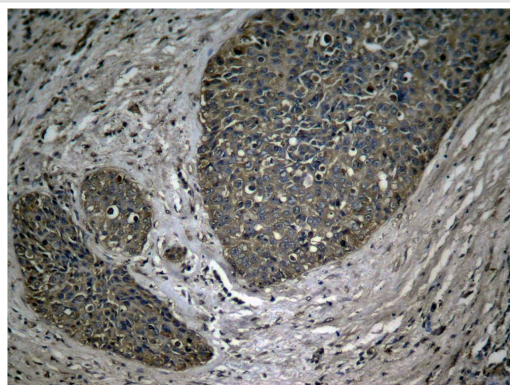
Western blot analysis of extracts from HepG2 and HL60 cells untreated or treated with TNF using NFkB-p65(Phospho-Ser536) Antibody #11014.



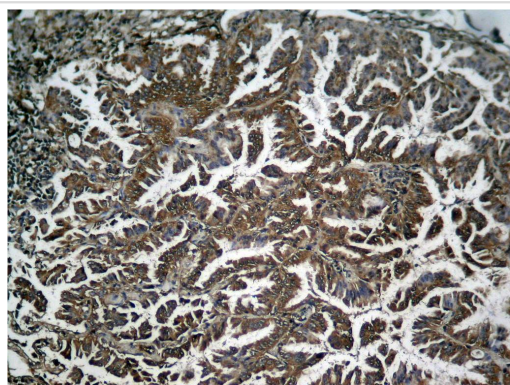
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using NFκB-p65 (Phospho-Ser536) Antibody #11014 (left) or the same antibody preincubated with blocking peptide #51014 (right).



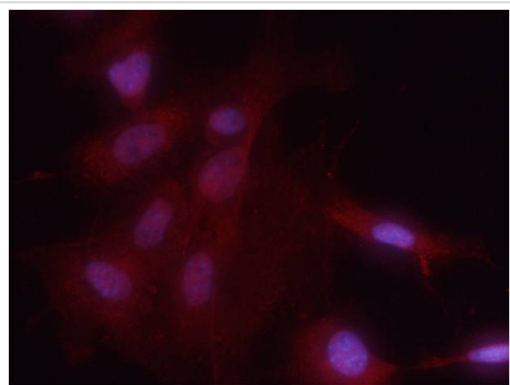
Immunofluorescence staining of methanol-fixed HeLa cells using NFκB-p65(Phospho-Ser536) Antibody #11014.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using NFκB-p65 (Phospho-Ser536) Antibody #11014.



Immunohistochemical analysis of paraffin-embedded human Lung carcinoma tissue using NFκB-p65 (Phospho-Ser536) Antibody #11014.



Immunofluorescence staining of methanol-fixed MEF cells using NFκB-p65 (Phospho-Ser536) Antibody #11014.

Background

NF-kappa-B is a pleiotropic transcription factor which is present in almost all cell types and is involved in many biological processes 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 invasion-mediated activation of IL-8 expression. The inhibitory effect of I-kappa-B upon NF-kappa-B in 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.

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.