

## NFkB-p65(Ab-468) Antibody

Catalog No: #21013

Package Size: #21013-1 50ul #21013-2 100ul

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## Description

|                       |   |
|-----------------------|---|
| Product Name          | NFkB-p65(Ab-468) Antibody   |
| Host Species          | Rabbit  |
| Clonality             | Polyclonal  |
| Purification          | Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide. |
| Applications          | WB IHC  |
| Species Reactivity    | Hu Ms Rt  |
| Specificity           | The antibody detects endogenous level of total NFkB-p65 protein.  |
| Immunogen Type        | Peptide-KLH   |
| Immunogen Description | Peptide sequence around aa.466~470 (L-A-S-V-D) derived from Human NFkB-p65.   |
| Target Name           | NFkB-p65  |
| 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 <sup>2+</sup> and Ca <sup>2+</sup> ), 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.   |

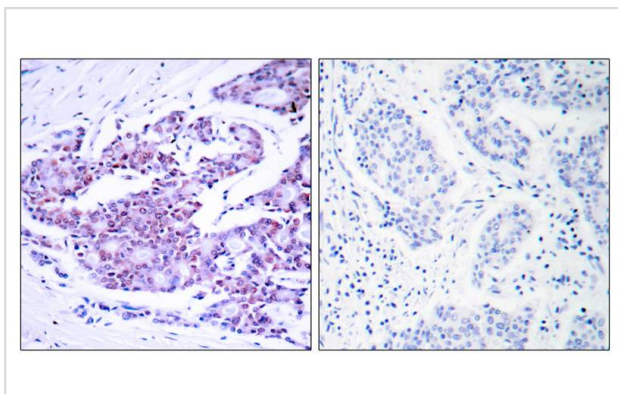
## Application Details

Predicted MW: 65kd

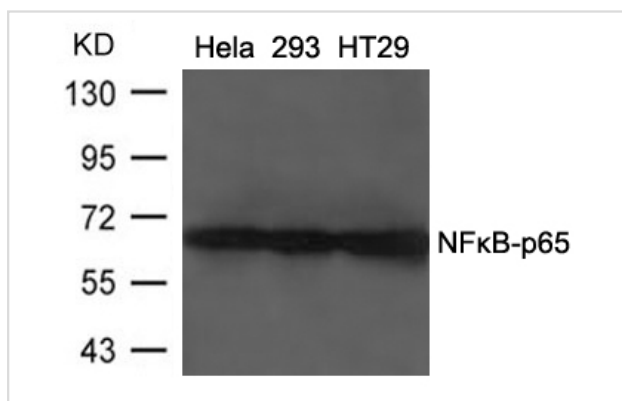
Western blotting: 1:500~1:1000

Immunohistochemistry: 1:50~1:100

## Images



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using NFkB-p65(Ab-468) Antibody #21013(left) or the same antibody preincubated with blocking peptide(right).



Western blot analysis of extracts from HeLa, 293 and HT29 cells using NFκB-p65 (Ab-468) Antibody #21013.

## 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.

Buss H, et al. (2004) J Biol Chem

Schmitz ML, et al. (2004) Blood

## Published Papers

et al., Cinnamaldehyde Inhibits Inflammation of Human Synoviocyte Cells Through Regulation of Jak/Stat Pathway and Ameliorates Collagen-Induced Arthritis in Rats. In J Pharmacol Exp Ther on 2020 May by Wen-Xiang Cheng, Shan Zhong, et al..PMID: 32029577, (2020)

[PMID:32029577](#)

et al., Visfatin Induces the Apoptosis of Endothelial Progenitor Cells via the Induction of Pro-Inflammatory Mediators Through the NF-κB Pathway. Int J Mol Med on 2017 Sep by Lina Sun, Shuchun Chen et al..PMID: 28677720, (2017)

[PMID:28677720](#)

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