

NFkB-p65(Ab-536) Antibody

Catalog No: #21014



Package Size: #21014-1 50ul #21014-2 100ul #21014-4 25ul

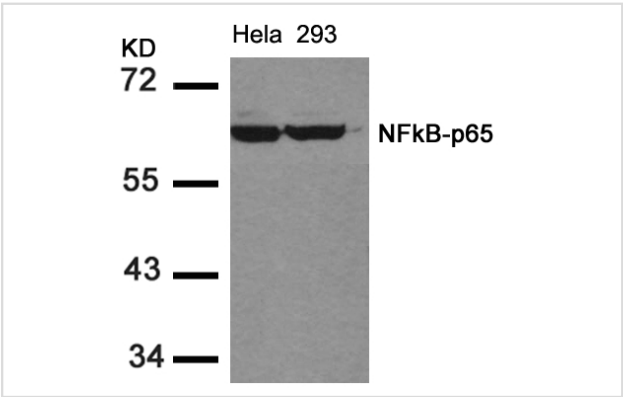
Overview

Product Name	NFkB-p65(Ab-536) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Applications	WB IHC
Species Reactivity	Hu Ms Rt
Immunogen Type	Peptide-KLH
Target Name	NFkB-p65
Alternative Names	NFKB3; RELA; TF65; Transcription factor p65; p65

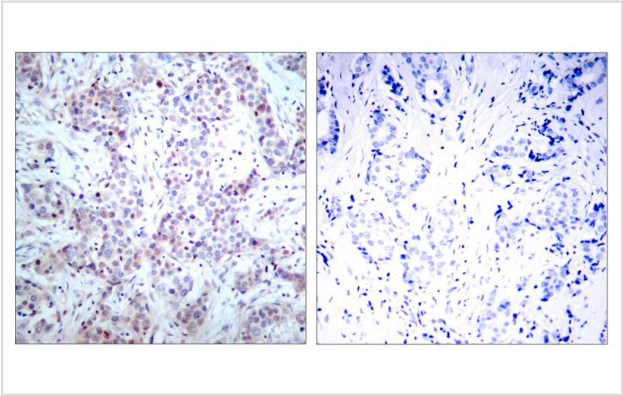
Application Details

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

Images



Western blot analysis of extracts from HeLa and 293 cells using NFkB-p65(Ab-536) Antibody #21014.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using NFkB-p65(Ab-536) Antibody #21014(left) or the same antibody preincubated with blocking peptide(right).

Descriptions

Immunogen	Peptide sequence around aa.534~538 (F-S-S-I-A) derived from Human NFκB-p65.
Specificity	The antibody detects endogenous level of total NFκB-p65 protein.
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
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.
Accession NO.	Swiss-Prot: Q04206NCBI Protein: NP_001138610.1

Related Information

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, NFκB1/p105, NFκB1/p50, REL and NFκB2/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.

Doyle S L, et al. (2005) J Biol Chem. 280(25): 23496-23501.

Anwar K N, et al. (2004) J 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.

Published Papers

Naina Shah, Dipok Dhar, Fatma El Zahraa Mohammed1 et al., Prevention of acute kidney injury in a rodent model of cirrhosis following selective gut decontamination is associated with reduced renal TLR4 expression., Journal of Hepatology., 56:1047B-C1053(2012)

[PMID:22266601](#)

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