

NFκB-p65 (phospho-Ser311) Antibody

Catalog No: #11260

Package Size: #11260-1 50ul #11260-2 100ul

Description

Product Name	NFκB-p65 (phospho-Ser311) 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 NFκB1B-p65 only when phosphorylated at serine311.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of serine 311(F-K-S(p)-I-M) derived from Human NFκB-p65.
Conjugates	Unconjugated
Target Name	NFκB-p65
Modification	Phospho
Other Names	p65; NFκB3
Accession No.	Swiss-Prot: Q04206; NCBI Gene ID: 5970; NCBI mRNA: NM_001145138.1 ; NCBI Protein: NP_001138610.1
SDS-PAGE MW	65KD
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

Application Details

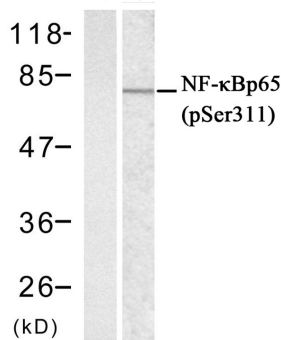
Predicted MW: 65kd

Western blotting : 1:500~1:1000

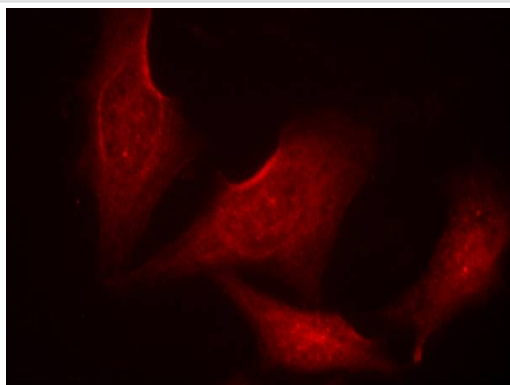
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

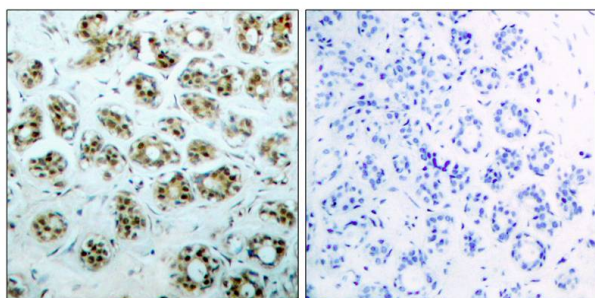
Images



Western blot analysis of extracts from HeLa cells untreated or treated with IFN- α using NF κ B-p65((phospho-Ser311) Antibody #11260.



Immunofluorescence staining of methanol-fixed HeLa cells using NF κ B-p65 (phospho-Ser311) antibody (#11260, Red).



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue, using NF κ B-p65 (phospho-Ser311) antibody (#11260).

Background

NF-kappa-B is a pleiotropic transcription factor present in almost all cell types and is the endpoint of a series of signal transduction events that are initiated by a vast array of stimuli related to 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. Associates with chromatin at the NF-kappa-B promoter region via association with DDX1.

Published Papers

Dan-Dan Shi, Hu Shi, Dan Lu et al., NDR1/STK38 potentiates NF- κ B activation by its kinase activity, Cell Biochem Funct, 30: 664–670(2012)
[PMID:22674419](#)

et al., Nuclear receptor Nur77 attenuates airway inflammation in mice by suppressing NF- κ B activity in lung epithelial cells. In J Immunol on 2015 Aug 15 by Mariska Vos, Adrian Logiantara, et al..PMID:26170382, , (2015)
[PMID:26170382](#)

Iyengar Prasanna Vasudevan;Lama Dilraj;Marvin Dieuwke Louise;Mei Hailiang;Ritsma Laila;Suriyamurthy Sudha;Tan Tuan Zea;Ten Dijke Peter;van Dinther Maarten;Verma Chandra Shekhar;Xie Feng;Zhang Long et al., TRAF4 Inhibits Bladder Cancer Progression by Promoting BMP/SMAD Signaling, , (2022)
[PMID:35731212](#)

Barber J Joan Albert;Goumans Marie Jos;Jukema J Wouter;Kurakula Kondababu;Lodder Kirsten;Quax Paul H A;Rodriguez Cristina;Smolders Valérie F E D;Tura-Ceide Olga et al., The Inflammatory Profile of CTEPH-Derived Endothelial Cells Is a Possible Driver of Disease Progression, , (2021)
[PMID:33810533](#)

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