

NFκB-p65(Phospho-Ser276) Antibody

Catalog No: #11011

Package Size: #11011-1 50ul #11011-2 100ul

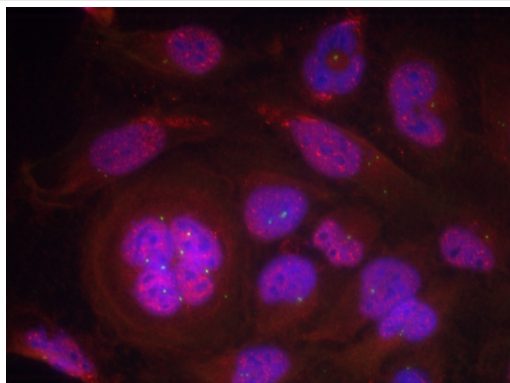
Description

Product Name	NFκB-p65(Phospho-Ser276) 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;IP
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of NFκB p65 only when phosphorylated at serine 276.
Immunogen Type	Peptide-KLH
Immunogen Description	: Peptide sequence around phosphorylation site of serine 276(R-P-S(p)-D-R) derived from Human NFκB-p65.
Conjugates	Unconjugated
Target Name	NFκB-p65
Modification	Phospho
Other Names	p65, NFκB3
Accession No.	Swiss-Prot#:Q04206 NCBI Gene#:5970 NCBI Protein#:NP_001138610.1
SDS-PAGE MW	65KD
Concentration	1.0mg/ml
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20 °C/1 year

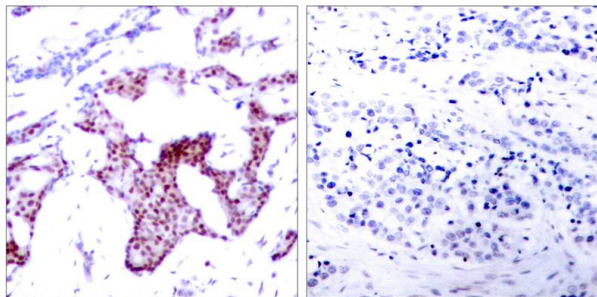
Application Details

WB 1:500 - 1:2000. IHC 1:100 - 1:300 Immunoprecipitation: 2-5 ug:mg lysate IF 1:50-200

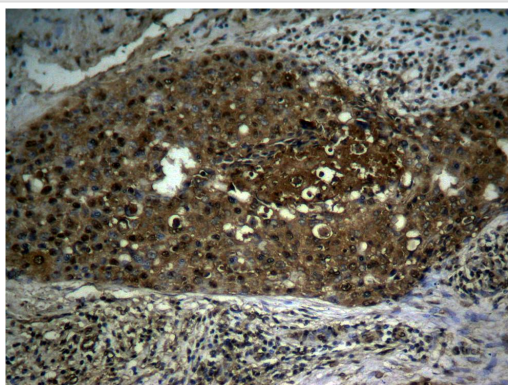
Images



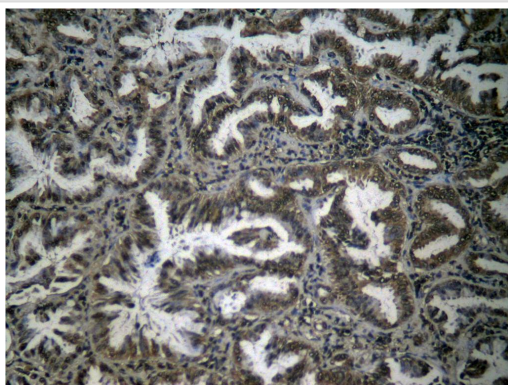
Immunofluorescence staining of methanol-fixed HeLa cells using NFκB-p65 (Phospho-Ser276) Antibody #11011.



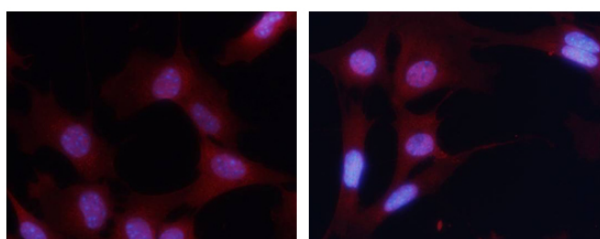
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using NFκB-p65 (Phospho-Ser276) Antibody #11011 (left) or the same antibody preincubated with blocking peptide #51011 (right).



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using NFκB-p65 (Phospho-Ser276) antibody #11011.



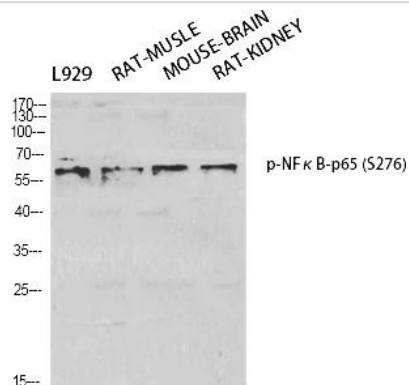
Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue using NFκB-p65 (Phospho-Ser276) antibody #11011.



untreated

TNF treated

Immunofluorescence staining of methanol-fixed MEF cells untreated or treated with TNF using NFκB-p65 (Phospho-Ser276) Antibody #11011.



Western Blot analysis of various cells using Phospho-NFκB-p65 (S276) Polyclonal Antibody diluted at 1:1000

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

Anneleen Spooren, Krzysztof Kolmus, Linda Vermeulen et al., Hunting for Serine 276-phosphorylated p65, Journal of Biomedicine and Biotechnology, doi:10.1155/2010/275892(2010)

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Xiaoping Cai, Saul Benedict Freedman, Paul Kenneth Witting et al., Serum amyloid A stimulates cultured endothelial cells to migrate and proliferate: inhibition by the multi-kinase inhibitor BIBF1120., Clin Exp Pharmacol Physiol., 40(9):662-70(2013)

[PMID:23819722](#)

et al., Regorefenib Induces extrinsic/Intrinsic apoptosis and Inhibits MAPK/NF-kB-modulated tumor progression In bladder cancer In vitro and In vivo. In Environ Toxicol on 2019 Jun by Chiang CH, Chung JG, et al..PMID:30801954, , (2019)

[PMID:30801954](#)

et al., Serum Amyloid A Stimulates Vascular and Renal Dysfunction In Apolipoprotein E-Deficient Mice Fed a Normal Chow Diet. In Front Immunol on 2019 Mar 7 by Chami B, Hossain F, et al..PMID:30899260, , (2019)

[PMID:30899260](#)

et al., Apoptosis Induction and AKT/NF-kB Inactivation are associated with regorafenib-Inhibited tumor progression In non-small cell lung cancer In vitro and In vivo. In Biomed Pharmacother on 2019 Jun 1 by Weng MC, Li MH, et al.. PMID:31163381, , (2019)

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et al., Hyperforin Induces Apoptosis Through Extrinsic/Intrinsic Pathways and Inhibits NF-kB-modulated Survival and Invasion Potential In Bladder Cancer. In In Vivo on 2019 Nov-Dec by Liu YC, Lin KH, et al..PMID:31662514, , (2019)

[PMID:31662514](#)

et al., Beneficial effect of fluoxetine on anti-tumor progression on hepatocellular carcinoma and non-small cell lung cancer bearing animal model. In Biomed Pharmacother on 2020 Jun; by Hsu LC, Tu HF, et al..PMID: 32145588, , (2020)

[PMID:32145588](#)

et al., Hunting for Serine 276-Phosphorylated p65. In J Biomed Biotechnol on 2010 by Anneleen Spooren, Krzysztof Kolmus, et al..PMID: 20204068, , (2010)

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et al., Serum amyloid A stimulates cultured endothelial cells to migrate and proliferate: inhibition by the multikinase inhibitor BIBF 1120. In Clin Exp Pharmacol Physiol on 2013 Sep by Xiaoping Cai, S Ben Freedman, et al..PMID:23819722, , (2013)

[PMID:23819722](#)

Aitken Jade B;Groebler Ludwig;Harris Hugh H;Kim Hyun Bo;Shanu Anu;Weekley Claire M;Witting Paul K;Wood Sarah el at., Selenium Inhibits Renal Oxidation and Inflammation But Not Acute Kidney Injury in an Animal Model of Rhabdomyolysis, , (2013)

[PMID:22937747](#)

Wang Zhiqiang;Liang Gaoshuang;Peng Jinying;Gu Yiyi;Zhang Xiangwen;Ding Cong;Yu Tingzi;Li Zhuan el at., Sirtuin 7 Promotes Alcohol-Associated Liver Injury via Modulating Myeloid Cell Chemokine (C-C Motif) Ligand 2 Secretion through the NF-κB Signaling Pathway, , (2025)

[PMID:](#)

Zhiqiang Wang;Gaoshuang Liang;Jinying Peng;Yiyi Gu;Xiangwen Zhang;Cong Ding;Tingzi Yu;Zhuan Li el at., Sirtuin 7 Promotes Alcohol-Associated Liver Injury via Modulating Myeloid Cell Chemokine (C-C Motif) Ligand 2 Secretion through the NF-κB Signaling Pathway., , (2025)

[PMID:39746506](#)

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