NFκB-p65(Phospho-Ser276) Antibody

Catalog No: #11011

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

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

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 chromatogramphy using non-phosphopeptide.
Applications	WB IHC IF
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous level of NFΓ B'IB-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, NFKB3
Accession No.	Swiss-Prot#:Q04206 NCBI Gene#:5970 NCBI Protein#:NP_001138610.1
SDS-PAGE MW	65KD
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C/1 year

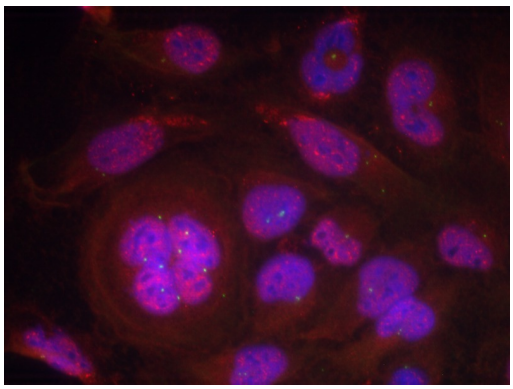
Application Details

Western blotting: 1:500-1:1000

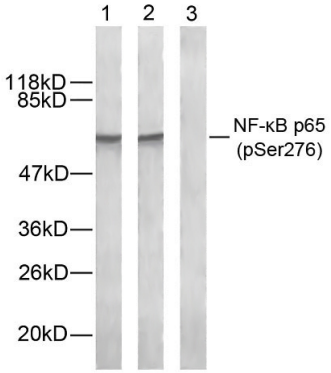
Immunofluorescence: 1:100-1:200

Immunohistochemistry: 1:50-1:100

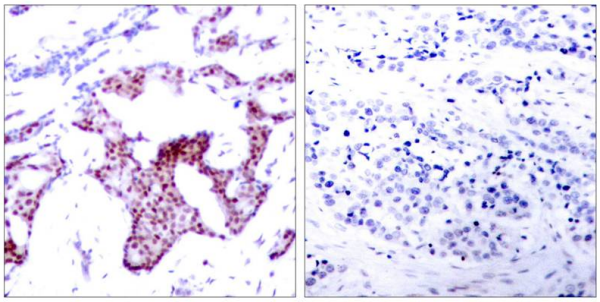
Images



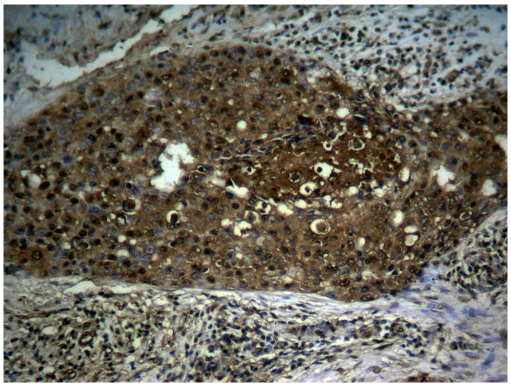
Immunofluorescence staining of methanol-fixed Hela cells using NFκB-p65 (Phospho-Ser276) Antibody #11011.



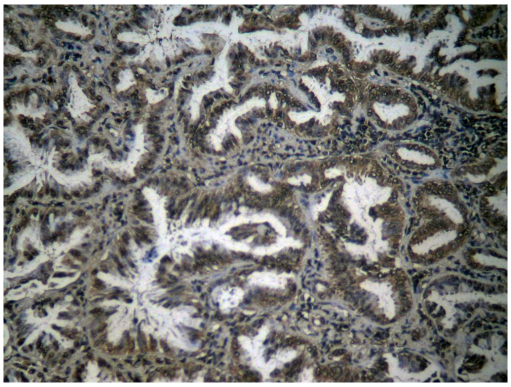
Western blot analysis of extract from Hela cells using NF-κB p65 (phospho-Ser276) antibody #11011. Lane 1: The antibody is not preincubated with blocking peptides. Lane 2: The antibody is preincubated with non- phospho peptide blocking peptides #61011. Lane 3: The antibody is preincubated with phospho peptide blocking peptides #51011.



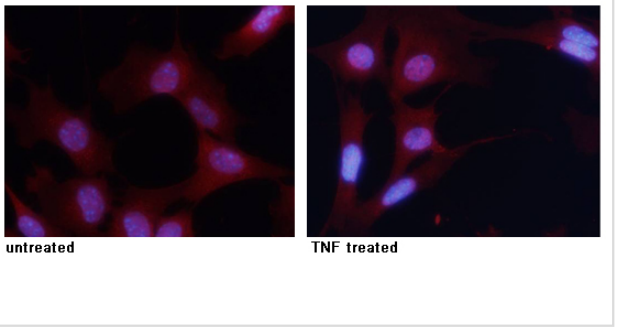
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using NFκB-p65 (Phospho-Ser276) Antibody #11011 (left) or the same antibody preincubated with blocking peptide #51011 (right).



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.



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

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 invasin-mediated activation of IL-8 expression. The inhibitory effect of I-kappa-B upon NF-kappa-B 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 el at., Hunting for Serine 276-phosphorylated p65, Journal of Biomedicine and Biotechnology, doi:10.1155/2010/275892(2010)

PMID:20204068

Xiaoping Cai, Saul Benedict Freedman, Paul Kenneth Witting el at., 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

el at., Regorefenib Induces extrInsic/IntrInsic apoptosis and Inhibits MAPK/NF-κB-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

el at., 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

el at., Apoptosis Induction and AKT/NF-κB Inactivation are associated with regroafenib-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)

PMID:31163381

el at., HyperforIn Induces Apoptosis Through ExtrInsic/IntrInsic Pathways and Inhibits NF-?B-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

el at., 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

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

PMID:20204068

el at., 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 Yiying;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-kB Signaling Pathway, , (2025)

PMID:

Zhiqiang Wang;Gaoshuang Liang;Jinying Peng;Yiying 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.