

Datasheet for ABIN6255402

**anti-NF-kB p65 antibody (pSer536)**

12 Images

11 Publications

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## Overview

Quantity:	100 µL
Target:	NF-kB p65 (NFkBp65)
Binding Specificity:	pSer536
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NF-kB p65 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF), Immunoprecipitation (IP), Immunocytochemistry (ICC)

## Product Details

Immunogen:	A synthesized peptide derived from human NF- kappaB p65 around the phosphorylation site of Serine 536
Isotype:	IgG
Specificity:	Phospho-NF- kappaB p65 (Ser536) Antibody detects endogenous levels of NF- kappaB p65 only when phosphorylated at Serine 536
Cross-Reactivity:	Human, Mouse (Murine), Rat (Rattus)
Purification:	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.

## Target Details

Target:	NF-kB p65 (NFkBp65)
Alternative Name:	NF kappaB p65 ( <a href="#">NFkBp65 Products</a> )
Background:	<p>Description: 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. Essential for cytokine gene expression in T-cells (PubMed:15790681).</p> <p>Gene: RELA</p>
Molecular Weight:	65kDa
Gene ID:	5970
UniProt:	<a href="#">Q04206</a>
Pathways:	<a href="#">NF-kappaB Signaling</a> , <a href="#">RTK Signaling</a> , <a href="#">TCR Signaling</a> , <a href="#">TLR Signaling</a> , <a href="#">Fc-epsilon Receptor Signaling Pathway</a> , <a href="#">Neurotrophin Signaling Pathway</a> , <a href="#">Activation of Innate immune Response</a> , <a href="#">Cellular Response to Molecule of Bacterial Origin</a> , <a href="#">Hepatitis C</a> , <a href="#">Toll-Like Receptors Cascades</a> , <a href="#">S100 Proteins</a>

## Application Details

Application Notes: WB 1:500-1:2000 IHC 1:50-1:500 IP 1:100-1:500 IF 1:200

Restrictions: For Research Use only

## Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, sodium azide and glycerol.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store at -20 °C.Stable for 12 months from date of receipt

Expiry Date: 12 months

## Publications

Product cited in: Zhang, Fei, Tao, Li, Shen, Wang, Liu, Xu: "Neuroprotective Effect of Modified Xijiao Dihuang Decoction against Oxygen-Glucose Deprivation and Reoxygenation-Induced Injury in PC12 Cells: Involvement of TLR4-MyD88/NF-κB Signaling Pathway." in: **Evidence-based complementary and alternative medicine : eCAM**, Vol. 2017, pp. 3848595, (2018) ([PubMed](#)).

Huang, Zhang, Hou, Wang, Liu, Zhang, Chen, Zhu: "LncRNA AK023391 promotes tumorigenesis and invasion of gastric cancer through activation of the PI3K/Akt signaling pathway." in: **Journal of experimental & clinical cancer research : CR**, Vol. 36, Issue 1, pp. 194, (2018) ([PubMed](#)).

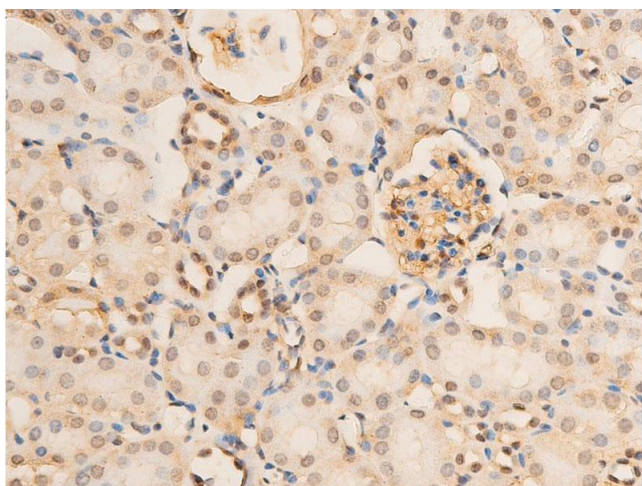
Ding, Shen, Li, Jiang, Shen: "Therapeutic mild hypothermia improves early outcomes in rats subjected to severe sepsis." in: **Life sciences**, Vol. 199, pp. 1-9, (2018) ([PubMed](#)).

Wu, Zhu, Zhang, Yin, Kang, Cao, Tian, Lu, Liu: "EGFR-associated pathways involved in traditional Chinese medicine (TCM)-1-induced cell growth inhibition, autophagy and apoptosis in prostate cancer." in: **Molecular medicine reports**, Vol. 17, Issue 6, pp. 7875-7885, (2018) ([PubMed](#)).

Li, Zhao, Lin, Gong, An: "TREM2 inhibits inflammatory responses in mouse microglia by suppressing the PI3K/NF- $\kappa$ B signaling." in: **Cell biology international**, (2018) ([PubMed](#)).

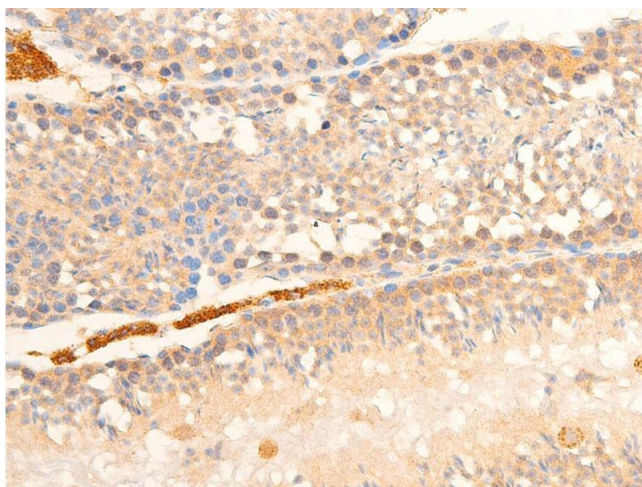
There are more publications referencing this product on: [Product page](#)

## Images



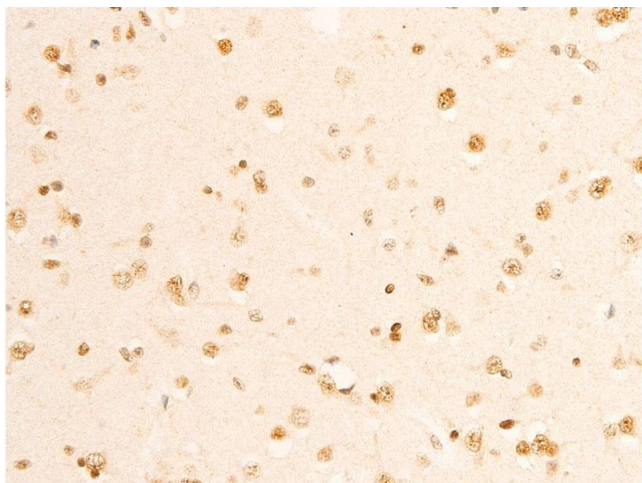
### Immunohistochemistry

**Image 1.** ABIN6267070 at 1/100 staining mouse kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



### Immunohistochemistry

**Image 2.** ABIN6267070 at 1/100 staining mouse testis tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



### Immunohistochemistry

**Image 3.** ABIN6267070 at 1/100 staining human brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

## Images

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Please check the [product details page](#) for more images. Overall 12 images are available for ABIN6255402.