



Datasheet for ABIN7161781
anti-NFKB1 antibody (AA 1-961)



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6 Images

Overview

Quantity:	100 µg
Target:	NFKB1
Binding Specificity:	AA 1-961
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NFKB1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF), Chromatin Immunoprecipitation (ChIP)

Product Details

Immunogen:	Recombinant Human Nuclear factor NF-kappa-B p105 subunit protein (1-961AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	NFKB1
Alternative Name:	NFKB1 (NFKB1 Products)
Background:	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 RelB-p50 complexes are transcriptional activators. The NF-kappa-B p50-p50 homodimer is a transcriptional repressor, but can act as a transcriptional activator when associated with BCL3. NFKB1 appears to have dual functions such as cytoplasmic retention of attached NF-kappa-B proteins by p105 and generation of p50 by a cotranslational processing. The proteasome-mediated process ensures the production of both p50 and p105 and preserves their independent function, although processing of NFKB1/p105 also appears to occur post-translationally. p50 binds to the kappa-B consensus sequence 5'GGRNNYCC-3', located in the enhancer region of genes involved in immune response and acute phase reactions. In a complex with MAP3K8, NFKB1/p105 represses MAP3K8-induced MAPK signaling, active MAP3K8 is released by proteasome-dependent degradation of NFKB1/p105.

Aliases: DKFZp686C01211 antibody, DNA binding factor KBF1 antibody, DNA binding factor KBF1 EBP1 antibody, DNA-binding factor KBF1 antibody, EBP 1 antibody, EBP-1 antibody, EBP1 antibody, KBF1 antibody, MGC54151 antibody, nf b antibody, NF kappa B antibody, NF kappaB antibody, NF kappabeta antibody, NF kB1 antibody, NF-kappaB antibody, NFKappaB antibody, NFKB 1 antibody, NFKB p105 antibody, NFKB p50 antibody, NFKB-p105 antibody, Nfkb1 antibody, NFKB1_HUMAN antibody, Nuclear factor kappa B DNA binding subunit antibody, Nuclear factor kappa-B antibody, Nuclear factor kappa-B, subunit 1 antibody, Nuclear factor NF kappa B p105 subunit antibody, Nuclear factor NF kappa B p50 subunit antibody, Nuclear factor NF-kappa-B p50 subunit antibody, Nuclear factor of kappa light chain gene enhancer in B cells 1 antibody, Nuclear factor of kappa light polypeptide gene enhancer in B cells 1 antibody, Nuclear factor of kappa light polypeptide gene enhancer in B-cells 1 antibody, p105 antibody, p50

Target Details

antibody, p84/NF-kappa-B1 p98 antibody, Transcription factor NFKB1 antibody

UniProt: [P19838](#)

Pathways: [p53 Signaling](#), [NF-kappaB Signaling](#), [RTK Signaling](#), [TCR Signaling](#), [TLR Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Activation of Innate immune Response](#), [Myometrial Relaxation and Contraction](#), [Regulation of Carbohydrate Metabolic Process](#), [Hepatitis C](#), [Toll-Like Receptors Cascades](#), [BCR Signaling](#), [S100 Proteins](#)

Application Details

Application Notes: Recommended dilution: WB:1:500-1:5000, IHC:1:100-1:1000, IF:1:200-1:500,

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4

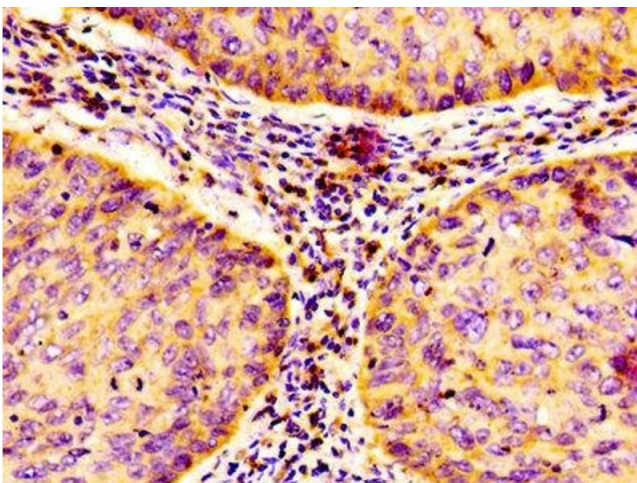
Preservative: ProClin

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

Storage: -20 °C,-80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

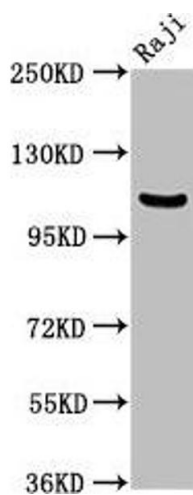
Images



Immunohistochemistry

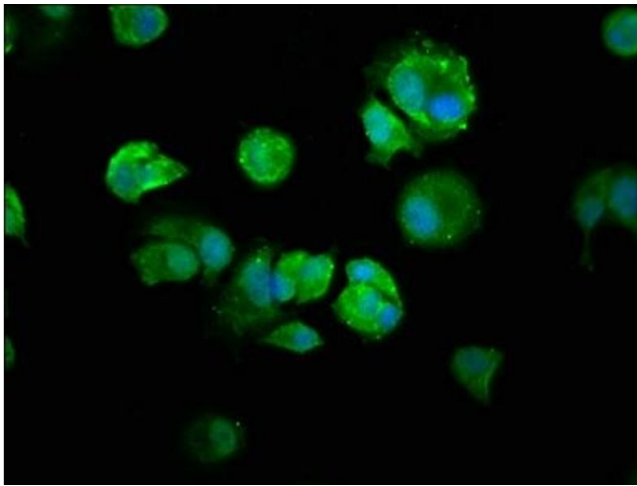
Image 1. IHC image of ABIN7161781 diluted at 1:100 and staining in paraffin-embedded human cervical cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and

visualized using an HRP conjugated ABC system.



Western Blotting

Image 2. Western Blot Positive WB detected in: Raji whole cell lysate All lanes: NFKB1 antibody at 3.75 µg/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 106, 86 kDa Observed band size: 106 kDa



Immunofluorescence

Image 3. Immunofluorescence staining of MCF-7 cells with ABIN7161781 at 1:250, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN7161781.