



Chicken anti-Human NF-kB p65 polyclonal antibody (DPABH-02420)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description

NF-kappa-B is a pleiotropic transcription factor which is present in almost all cell types and is involved in 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.

Immunogen	Synthetic peptide within Human NF-kB p65 aa 500 to the C-terminus conjugated to Keyhole Limpet Haemocyanin (KLH). The exact sequence is proprietary.
Isotype	IgY
Source/Host	Chicken

Species Reactivity	Human
Purification	Protein L purified
Conjugate	Unconjugated
Applications	WB
Format	Liquid
Size	100 µg
Buffer	pH: 7.4; Constituents: PBS, 3% BSA
Preservative	Preservative: 0.01% Sodium azide
Storage	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

GENE INFORMATION

Gene Name	RELA v-rel avian reticuloendotheliosis viral oncogene homolog A [Homo sapiens]
Official Symbol	RELA
Synonyms	RELA; v-rel avian reticuloendotheliosis viral oncogene homolog A; p65; NFkB3; transcription factor p65; NF-kappa-B p65delta3; nuclear factor NF-kappa-B p65 subunit; v-rel reticuloendotheliosis viral oncogene homolog A; nuclear factor of kappa light polypeptide gene enhancer in B-cells 3;
Entrez Gene ID	5970
Protein Refseq	NP_001138610.1
UniProt ID	Q04206
Pathway	AGE/RAGE pathway; Activation of NF-kappaB in B cells; Acute myeloid leukemia; Adipocytokine signaling pathway
Function	DNA binding; NF-kappaB binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity involved in negative regulation of t