



Rabbit anti-Human RELA Polyclonal antibody (CPBT-55981RH)

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

PRODUCT INFORMATION

Product Overview	Rabbit Polyclonal antibody to Human RELA.
Antigen Description	NF-kappa-B is a ubiquitous transcription factor involved in several biological processes. It is held in the cytoplasm in an inactive state by specific inhibitors. Upon degradation of the inhibitor, NF-kappa-B moves to the nucleus and activates transcription of specific genes. NF-kappa-B is composed of NFKB1 or NFKB2 bound to either REL, RELA, or RELB. The most abundant form of NF-kappa-B is NFKB1 complexed with the product of this gene, RELA. Four transcript variants encoding different isoforms have been found for this gene.
Immunogen	Synthetic peptide conjugated to KLH derived from within residues 500 to the C-terminus of Human NFkB p65.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Immunogen affinity purified
Conjugate	Unconjugated
Applications	IHC-FoFr, ICC/IF, IHC-P, WB, IP
Sequence Similarities	Contains 1 RHD (Rel-like) domain.
Cellular Localization	Nucleus. Cytoplasm. Nuclear, but also found in the cytoplasm in an inactive form complexed to an inhibitor (I-kappa-B). Colocalized with RELA in the nucleus upon TNF-alpha induction.
Post translation Modifications	Ubiquitinated, leading to its proteasomal degradation. Degradation is required for termination of NF-kappa-B response. Monomethylated at Lys-310 by SETD6. Monomethylation at Lys-310 is

recognized by the ANK repeats of EHMT1 and promotes the formation of re

Format	Liquid
Size	100 µg
Buffer	Preservative: 0.02% Sodium AzideConstituents: 1% BSA, PBS, pH 7.4
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

GENE INFORMATION

Gene Name	RELA v-rel reticuloendotheliosis viral oncogene homolog A (avian) [Homo sapiens]
Official Symbol	RELA
Synonyms	RELA; v-rel reticuloendotheliosis viral oncogene homolog A (avian); NFKB3,nuclear factor of kappa light polypeptide gene enhancer in B cells 3; transcription factor p65; p65; Avian reticuloendotheliosis viral (v rel) oncogene homolog A; MGC131774; NFKB 3; NFKB3; Nuclear Factor NF Kappa B p65 Subunit; Nuclear factor NF-kappa-B p65 subunit; Nuclear factor of kappa light polypeptide gene enhancer in B cells 3; Nuclear Factor Of Kappa Light Polypeptide Gene Enhancer In B Cells; Nuclear factor of kappa light polypeptide gene enhancer in B-cells 3; OTTHUMP00000233473; OTTHUMP00000233474; OTTHUMP00000233475; OTTHUMP00000233476; OTTHUMP00000233900; p65; p65 NF kappaB; p65 NFkB; RELA; TF65_HUMAN; Transcription Factor p65; v rel avian reticuloendotheliosis viral oncogene homolog A (nuclear factor of kappa light polypeptide gene enhancer in B cells 3 (p65)); V Rel Avian Reticuloendotheliosis Viral Oncogene Homolog A; v rel reticuloendotheliosis viral oncogene homolog A (avian); V rel reticuloendotheliosis viral oncogene homolog A, nuclear factor of kappa light polypeptide gene enhancer in B cells 3, p65; v-rel reticuloendotheliosis viral oncogene homolog A; OTTHUMP00000233473; OTTHUMP00000233474; OTTHUMP00000233475; OTTHUMP00000233476; OTTHUMP00000233900; NF-kappa-B p65delta3; nuclear factor NF-kappa-B p65 subunit; nuclear factor of kappa light polypeptide gene enhancer in B-cells 3; NFKB3;
Entrez Gene ID	5970
Protein Refseq	NP_001138610
UniProt ID	Q04206
Chromosome Location	11q13
Pathway	Activated TLR4 signalling, organism-specific biosystem; Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; Adaptive Immune System, organism-specific biosystem; Adipocytokine signaling pathway, organism-specific biosystem;

Adipocytokine signaling pathway, conserved biosystem; Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Angiopoietin receptor Tie2-mediated s

Function

DNA binding; NF-kappaB binding; activating transcription factor binding; ankyrin repeat binding; chromatin binding; identical protein binding; identical protein binding; phosphate ion binding; protein N-terminus binding; protein binding; protein kinase binding; repressing transcription factor binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; sequence-specific DNA binding transcription factor activity; sequence-specific distal enhancer binding RNA polymerase II transcription factor activity; transcription factor binding; transcription regulatory region DNA binding; ubiquitin protein ligase binding;
