NFKBp65 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NFKBp65, Polyclonal Antibody
Full Product Name	NFKBp65, CT (S536) (RELA, NFKB3, Transcription factor p65, Nuclear factor NF-kappa-B p65 subunit, Nuclear factor of kappa light polypeptide gene enhancer in B Cells 3) (MaxLight 550)
Product Gene Name	anti-NFKBp65 antibody
Product Synonym Gene Name	RELA
Product Synonym Names	RELA; NFKB3; Transcription factor p65; Nuclear factor NF-kappa-B p65 subunit; Nuclear factor of kappa light polypeptide gene enhancer in B-cells 3
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	60,219 Da
Chromosome Location	Chromosome: 11; NC_000011.9 (65421067..65430443, complement). Location: 11q13
OMIM	164014
3D Structure	ModBase 3D Structure for Q04206
Immunogen	NFKBp65 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the C-terminal region of human NFKBp65.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-NFKBp65 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-NFKBp65 antibody	Western Blot (WB), FLISA
Application Notes for anti-NFKBp65 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.

Related Product Information for anti-NFKBp65 antibody	NFKB1 (MIM 164011) or NFKB2 (MIM 164012) is bound to REL (MIM 164910), RELA, or RELB (MIM 604758) to form the NFKB complex. The p50 (NFKB1)/p65 (RELA) heterodimer is the most abundant form of NFKB. The NFKB complex is inhibited by I-kappa-B proteins (NFKBIA, MIM 164008 or NFKBIB, MIM 604495), which inactivate NFKB by trapping it in the cytoplasm. Phosphorylation of serine residues on the I-kappa-B proteins by kinases (IKBKA, MIM 600664, or IKBKB, MIM 603258) marks them for destruction via the ubiquitination pathway, thereby allowing activation of the NFKB complex. Activated NFKB complex translocates into the nucleus and binds DNA at kappa-B-binding motifs such as 5-prime GGGRNNYYCC 3-prime or 5-prime HGGARNYYCC 3-prime (where H is A, C, or T; R is an A or G purine; and Y is a C or T pyrimidine).
Product References and Citations for anti-NFKBp65 antibody	Pan, W.W., et al. J. Biol. Chem. 285(45):34348-34354(2010). Tago, K., et al. J. Biol. Chem. 285(40):30622-30633(2010). Park, J.S., et al. Oncol. Rep. 24(3):709-714(2010). Yu, Z.H., et al. Xi Bao Yu Fen Zi Mian Yi Xue Za Zhi 26(7):650-652(2010). Rohwer, N., et al. PLoS ONE 5 (8), E12038 (2010).
Other Notes	Small volumes of anti-NFKBp65 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NFKBp65 purchase	MBS6325132 is an antibody targeting NFKBp65. Also known as NFKBp65, CT (S536) (RELA, NFKB3, Transcription factor p65, Nuclear factor NF-kappa-B p65 subunit, Nuclear factor of kappa light polypeptide gene enhancer in B Cells 3) (MaxLight 550). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NFKBp65. It may not necessarily be applicable to this product.

NCBI GI #	223468681
NCBI GeneID	5970
NCBI Accession #	NP_001138610.1
UniProt Primary Accession #	Q04206
UniProt Secondary Accession #	Q6GTV1; Q6SLK1
UniProt Related Accession #	Q04206
GenBank Nucleotide #	NM_001145138.1
NCBI Official Full Name	transcription factor p65 isoform 2
NCBI Official Synonym Full Names	v-rel reticuloendotheliosis viral oncogene homolog A (avian)
NCBI Official Symbol	RELA
NCBI Official Synonym Symbols	p65; NFKB3
UniProt Protein Name	Transcription factor p65
UniProt Synonym Protein Names	Nuclear factor NF-kappa-B p65 subunit; Nuclear factor of kappa light polypeptide gene enhancer in B-cells 3
UniProt Gene Name	RELA
UniProt Synonym Gene Names	NFKB3
UniProt Entry Name	TF65_HUMAN
NCBI Protein Information	transcription factor p65; NF-kappa-B p65delta3; nuclear factor NF-kappa-B p65 subunit; nuclear factor of kappa light polypeptide gene enhancer in B-cells 3
NCBI Summary for NFKBp65	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. [provided by RefSeq, Sep 2011]

UniProt Comments for NFKBp65	NFkB-p65: a subunit of NF-kappa-B transcription complex, which plays a crucial role in inflammatory and immune responses. 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. There are five NFkB proteins in mammals (RelA/NFkB-p65, RelB, c-Rel, NF-_B1/NFkB-p105, and NF-_B2/NFkB-p100). They form a variety of homodimers and heterodimers, each of which activates its own characteristic set of genes. Three splice-variant isoforms have been identified. Protein type: Transcription factor; Nuclear receptor co-regulator; DNA-binding Chromosomal Location of Human Ortholog: 11q13 Cellular Component: nucleoplasm; transcription factor complex; cytoplasm; cytosol; nucleus Molecular Function: RNA polymerase II transcription factor activity, enhancer binding; identical protein binding; NF-kappaB binding; protein binding; transcription activator binding; DNA binding; protein heterodimerization activity; ubiquitin protein ligase binding; protein complex binding; protein N-terminus binding; chromatin binding; phosphate binding; transcription factor activity; protein kinase binding; transcription factor binding Biological Process: viral reproduction; nerve growth factor receptor signaling pathway; positive regulation of transcription, DNA-dependent; negative regulation of insulin receptor signaling pathway; toll-like receptor 3 signaling pathway; T cell receptor signaling pathway; activation of NF-kappaB transcription factor; toll-like receptor 5 signaling pathway; hair follicle development; toll-like receptor 4 signaling pathway; defense response to virus; response to drug; membrane protein intracellular domain proteolysis; positive regulation of I-kappaB kinase/NF-kappaB cascade; acetaldehyde metabolic process; response to amino acid stimulus; toll-like receptor 2 signaling pathway; organ morphogenesis; positive regulation of chondrocyte differentiation; response to muramyl dipeptide; response to mechanical stimulus; positive regulation of transcription from RNA polymerase II promoter; toll-like receptor 9 signaling pathway; negative regulation of transcription, DNA-dependent; response to progesterone stimulus; negative regulation of protein catabolic process; negative regulation of apoptosis; transcription from RNA polymerase II promoter; response to cAMP; response to morphine; negative regulation of transcription from RNA polymerase II promoter; toll-like receptor 10 signaling pathway; response to insulin stimulus; response to organic substance; positive regulation of cell proliferation; positive regulation of interferon type I production; inflammatory response; aging; positive regulation of Schwann cell differentiation; MyD88-independent toll-like receptor signaling pathway; cytokine and chemokine mediated signaling pathway; liver development; response to UV-B; MyD88-dependent toll-like receptor signaling pathway; positive regulation of interleukin-12 biosynthetic process; regulation of inflammatory response; toll-like receptor signaling pathway; cellular defense response; innate immune response; response to cobalamin
Research Articles on NFKBp65	**1.** Ultraviolet radiation also upregulated mitogen-activated protein kinases and nuclear factor-kappaB/p65 expression via Toll-like receptor 2 and Toll-like receptor 4, and upregulated interferon regulatory factor-3 expression
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