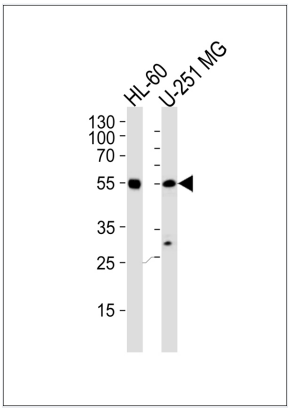
RELA Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RELA, Polyclonal Antibody
Full Product Name	RELA Antibody (N-term)
Product Gene Name	anti-RELA antibody
Product Synonym Names	Transcription factor p65; Nuclear factor NF-kappa-B p65 subunit; Nuclear factor of kappa light polypeptide gene enhancer in B-cells 3; RELA; NFKB3
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human (Predicted Reactivity: Mouse)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 0.5 (lot specific)
Specificity	This RELA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 32-60 amino acids from the N-terminal region of human RELA.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	RELA peptide (MBS9228658) is used for blocking the activity of RELA antibody (MBS9203496)
Molecular Weight	60219
Immunogen Sequence Positions	32-60
OMIM	164014
3D Structure	ModBase 3D Structure for Q04206
Antigen Type	Synthetic Peptide
Crown Antibody	Yes
Antigen Source	HUMAN
Applications Tested/Suitable for anti-RELA antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-RELA antibody	WB~~1:1000

Related Product Information for anti-RELA 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-RELA 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-RELA 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 RELA purchase	MBS9203496 is an antibody targeting RELA. Also known as RELA Antibody (N-term). Reactive in Human (Predicted Reactivity: Mouse). Host: Rabbit.



Western Blot (WB) of anti-RELA antibody
Western blot analysis of lysates from HL-60, U251 MG cell line (from left to right), using RELA Antibody (N-term). MBS9203496 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.

ADDITIONAL DETAILS

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

NCBI GI #	223468681
NCBI GeneID	5970
NCBI Accession #	NP_001138610.1
NCBI Related Accession #	NP_001230913.1; NP_068810.3
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 avian reticuloendotheliosis viral oncogene homolog A
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
Protein Family	Bifunctional (p)ppGpp synthase/hydrolase
UniProt Gene Name	RELA
UniProt Synonym Gene Names	NFKB3
UniProt Entry Name	TF65_HUMAN
NCBI Protein Information	transcription factor p65
NCBI Summary for RELA	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 RELA	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; DNA-binding; Nuclear receptor co-regulator Chromosomal Location of Human Ortholog: 11q13 Cellular Component: nucleoplasm; transcription factor complex; cytoplasm; nucleus; cytosol Molecular Function: RNA polymerase II transcription factor activity, enhancer binding; NF-kappaB binding; identical protein 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 binding; protein kinase binding; transcription factor activity 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; positive regulation of I-kappaB kinase/NF-kappaB cascade; membrane protein intracellular domain proteolysis; 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; negative regulation of protein catabolic process; response to progesterone stimulus; 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; response to insulin stimulus; toll-like receptor 10 signaling pathway; 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; cytokine and chemokine mediated signaling pathway; MyD88-independent toll-like receptor 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; innate immune response; cellular defense response; response to cobalamin

Research Articles on RELA	**1.** Results showed that the protein levels of endothelial lipase (EL), NF-kappaB p65, MAPK p38 protein levels, in addition to the proliferation of umbilical vein endothelial cells (HUVECs), were increased by angiotensin II (AngII).
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