

Recombinant Human RELA, His-tagged

Cat. No. RELA-634H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human RELA is produced in <i>Sf21 cells</i> and Fused to a His-tag.
Species	Human
Source	Sf21 Cells
Description	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).
Purity	≥95% (SDS-PAGE).
Concentration	0.5mg/ml.
Formulation	Liquid. In 50mM TRIS-HCl, pH 7.5, containing 100mM sodium chloride, 0.2% NP-40, 50-100mM imidazole and 10% glycerol.

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Specific Activity ~1ng is required for high mobility shift assay. ~5ng are required for reconstituted transcription assays.

Storage And Stability -80°C. After opening, prepare aliquots and store in liquid nitrogen. Avoid freeze/thaw cycles.

GENE INFORMATION

Gene Name RELA v-rel reticuloendotheliosis viral oncogene homolog A (avian) [Homo sapiens]

Synonyms RELA; v-rel reticuloendotheliosis viral oncogene homolog A (avian); nuclear factor NF-kappa-B p65 subunit; nuclear factor of kappa light polypeptide gene enhancer in B-cells 3; 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 reticuloendotheliosis viral oncogene homolog A, nuclear factor of kappa light polypeptide gene enhancer in B-cells 3, p65; p65; NFKB3; MGC131774

Gene ID 5970

mRNA Refseq NM_001145138

Protein Refseq NP_001138610

MIM 164014

UniProt ID Q04206

Chromosome Location 11q13

Pathway Acute myeloid leukemia; Adipocytokine signaling pathway; B cell receptor signaling

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pathway; Chemokine signaling pathway; Epithelial cell signaling in Helicobacter pylori infection; Leishmania infection; NOD-like receptor signaling pathway; Pancreatic cancer; RIG-I-like receptor signaling pathway; Small cell lung cancer; T cell receptor signaling pathway; Toll-like receptor signaling pathway; Signalling by NGF

Function

DNA binding; NF-kappaB binding; promoter binding; protein binding; transcription factor activity; RNA polymerase II transcription factor activity, enhancer binding; identical protein binding; protein complex binding; protein binding; transcription activator binding; transcription factor binding; transcription activator activity; transcription repressor binding; transcription repressor activity

PDB rendering based
on 1bft.



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