

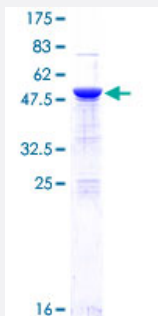
Full-Length

RELA (Human) Recombinant Protein (P02)

Catalog # H00005970-P02

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human RELA full-length ORF (AAH11603.1, 1 a.a. - 220 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MDELFLIFPAEPAQASGPYVEIEQPKQRGMRFYKCEGRSAGSIPGERSTDTTKTHPTIKINGYTG PGTVRISLVTKDPPHRPHHELVGKDCRDGFYEALCPDRCIHSFQNLGIQCVKKRDLEQAISQRI QTNNPFQVPIEEQRGDYDLNAVRLCFQVTVRDPGRPLRLPPVLSHPFDNRAPNTAELKICRVN RNSGSCLGGEIFLLCDKVQ
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	51.2
Interspecies Antigen Sequence	Mouse (96); Rat (99)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — RELA

Entrez GeneID [5970](#)

GeneBank Accession# [BC011603.1](#)

Protein Accession# [AAH11603.1](#)

Gene Name RELA

Gene Alias MGC131774, NFKB3, p65

Gene Description v-rel reticuloendotheliosis viral oncogene homolog A (avian)

Omim ID [164014](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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 GGGRNYYCC 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).[supplied by OMIM]

Other Designations nuclear factor of kappa light polypeptide gene enhancer in B-cells 3|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

Publication Reference

- [8-oxoguanine DNA glycosylase-1 augments proinflammatory gene expression by facilitating the recruitment of site-specific transcription factors.](#)

Ba X, Bacsi A, Luo J, Aguilera-Aguirre L, Zeng X, Radak Z, Brasier AR, Boldogh I.

The Journal of Immunology 2014 Mar; 192(5):2384.

Application: Func, Human, Recombinant protein

Pathway

- [Acute myeloid leukemia](#)
- [Adipocytokine signaling pathway](#)
- [Apoptosis](#)
- [B cell receptor signaling pathway](#)
- [Chemokine signaling pathway](#)
- [Chronic myeloid leukemia](#)
- [Epithelial cell signaling in Helicobacter pylori infection](#)
- [MAPK signaling pathway](#)
- [Neurotrophin signaling pathway](#)
- [Pancreatic cancer](#)
- [Pathways in cancer](#)
- [Prostate cancer](#)
- [Small cell lung cancer](#)
- [T cell receptor signaling pathway](#)
- [Toll-like receptor signaling pathway](#)

Disease

- [Arthritis](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hematologic Diseases](#)
- [HIV Infections](#)
- [Hodgkin Disease](#)
- [Liver Cirrhosis](#)
- [Lymphoproliferative Disorders](#)
- [Multiple Myeloma](#)
- [Occupational Diseases](#)
- [Testicular Neoplasms](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)