

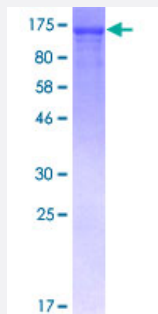
Full-Length

NFKB1 (Human) Recombinant Protein (P01)

Catalog # H00004790-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human NFKB1 full-length ORF (AAH51765.1, 1 a.a. - 969 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MAEDDPYLGRPEQMFHLDPSLTHTIFNPEVFQPMALPTADGPYLQILEQPKQRGFRFRYVCEGP
SHGGLPGASSEKNKKSYPQVKICNYVGPQKLVLTNGKNIHLHAHSLVKGHCEDGICTVTAGPK
DMVVGAFANLILHVTKKKVFETLEARMTEACIRGYNPGLLVHPDLAYLQAEAGGDRQLGDREKELI
RQAALQQTKEMDLSVVRLMFTAFLPDSTGSFTRRLEPVVSDAIDSKAPNASNLKVRMDRTAGC
VTGGEEMLLCDKVQKDDIQIRFYEEEEENGGVWEGFGDFSPDTHVRQFAMFKTPKYKDINITKPAS
VFVQLRRKSDLETSEPKPFLYPEIKDKEEVQRKRQKLMPNFSDFSFGGSGAGAGGGGMFGSG
GGGGGTGSTGPGYSFPHYGFPTYGGITFHPGTTKSNAGMKHGTMDTESKKDPEGCDKSDDKNT
VNLFGKVIETTEQDQEPSEATVGNGEVTLTYATGTKEESAGVQDNLFLKAMQLAKRHANALFDY
AVTGDVKMLLAVQRHLTAVQDENGDSVLHLAIIHLHSQLVRDLLEVTSGLISDDIINMRNDLYQTPLH
LAVITKQEDVVEDLLRAGADLSLLDRLGNSVLHLAAKEGHDKVLSILLKHKAALLLDHPNGDGLN
AIHLAMMSNSLPCLLLLVAAGADVNAQEQQSGRTALHLAVEHDNISLAGCLLLEGDAHVDSTTYD
GTTPLHIAAGRGSTRLAALLKAAGADPLVENFEPLYDLDDSWENAGEDEGVVPGTTPLDMATSW
QVFDILNGKPYEPEFTSDDLLAQGDMKQLAEDVKLQLYKLEIPDPDKNWATLAQKLGLILNNAF
RLSPAPSKTMDNYEVSGGTRELVEALRQMGYTEAIEVQAASSPVKTTSSQAHSPLSPASTRQ
QIDELRSDSVCDSGVETSFRKLSFTESLTSGASLLTLNKMPHDYQGEGPLEGKI

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

131.8

Interspecies Antigen Sequence

Mouse (86); Rat (85)

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 — NFKB1

Entrez GeneID[4790](#)**GeneBank Accession#**[BC051765.1](#)**Protein Accession#**[AAH51765.1](#)**Gene Name**

NFKB1

Gene Alias

DKFZp686C01211, EBP-1, KBF1, MGC54151, NF-kappa-B, NFKB-p105, NFKB-p50, p105, p50

Gene Description

nuclear factor of kappa light polypeptide gene enhancer in B-cells 1

Omim ID[164011](#)**Gene Ontology**[Hyperlink](#)

Gene Summary

This gene encodes a 105 kD protein which can undergo cotranslational processing by the 26S proteasome to produce a 50 kD protein. The 105 kD protein is a Rel protein-specific transcription inhibitor and the 50 kD protein is a DNA binding subunit of the NF-kappa-B (NFKB) protein complex. NFKB is a transcription regulator that is activated by various intra- and extra-cellular stimuli such as cytokines, oxidant-free radicals, ultraviolet irradiation, and bacterial or viral products. Activated NFKB translocates into the nucleus and stimulates the expression of genes involved in a wide variety of biological functions. Inappropriate activation of NFKB has been associated with a number of inflammatory diseases while persistent inhibition of NFKB leads to inappropriate immune cell development or delayed cell growth. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations

DNA binding factor KBF1|NF-kappabeta|nuclear factor NF-kappa-B p50 subunit|nuclear factor kappa-B DNA binding subunit|nuclear factor kappa-B, subunit 1

Publication Reference

- [Anticancer effect of tectochrysin in colon cancer cell via suppression of NF-kappaB activity and enhancement of death receptor expression.](#)

Park MH, Hong JE, Park ES, Yoon HS, Seo DW, Hyun BK, Han SB, Ham YW, Hwang BY, Hong JT.

Molecular Cancer 2015 Jun; 14:124.

Application: Pull-Down, Human, SW480 cells

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](#)
- [Metabolic pathways](#)
- [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

- [Abortion](#)
- [Acute Lung Injury](#)
- [Adenocarcinoma](#)
- [Alcoholism](#)
- [Alzheimer disease](#)
- [Arthritis](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Behcet Syndrome](#)
- [Birth Weight](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Calcinosis](#)
- [Carcinoid Tumor](#)
- [Carcinoma](#)
- [Cardiomyopathy](#)
- [Cardiovascular Diseases](#)
- [Celiac Disease](#)
- [Chorioamnionitis](#)

- [Colitis](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Connective Tissue Diseases](#)
- [Coronary Artery Disease](#)
- [Crohn Disease](#)
- [Dermatitis](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Diabetic Retinopathy](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Edema](#)
- [Endometriosis](#)
- [Esophageal Neoplasms](#)
- [Fetal Diseases](#)
- [Fetal Membranes](#)
- [Gastrointestinal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Graves Disease](#)
- [Graves Ophthalmopathy](#)

- [Head and Neck Neoplasms](#)
- [Hematologic Diseases](#)
- [Hepatitis B](#)
- [Hepatitis C](#)
- [Hodgkin Disease](#)
- [Immune System Diseases](#)
- [Infection](#)
- [Inflammation](#)
- [Inflammatory Bowel Diseases](#)
- [Kidney Failure](#)
- [Kidney Neoplasms](#)
- [Leukemia](#)
- [Liver Cirrhosis](#)
- [Liver Neoplasms](#)
- [Lung Neoplasms](#)
- [Lupus Erythematosus](#)
- [Lymphatic Metastasis](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Malignant melanoma](#)
- [Melanoma](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Metabolic Syndrome X](#)
- [Mouth Neoplasms](#)
- [Multiple Myeloma](#)
- [Musculoskeletal Diseases](#)

- [Nasopharyngeal Neoplasms](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Neuroendocrine Tumors](#)
- [Obesity](#)
- [Obstetric Labor](#)
- [Occupational Diseases](#)
- [Osteoporosis](#)
- [Ovarian Failure](#)
- [Pain](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Parkinson disease](#)
- [Polycystic Ovary Syndrome](#)
- [Polymyalgia Rheumatica](#)
- [Postoperative Hemorrhage](#)
- [Pre-Eclampsia](#)
- [Pregnancy Complications](#)
- [Premature Birth](#)
- [Prostate cancer](#)
- [Prostatic Hyperplasia](#)
- [Prostatic Neoplasms](#)
- [Prostatitis](#)
- [Psoriasis](#)
- [Puberty](#)
- [Pulmonary Disease](#)

- [Rectal Neoplasms](#)
- [Recurrence](#)
- [Sarcoidosis](#)
- [Silicosis](#)
- [Skin Diseases](#)
- [Skin Neoplasms](#)
- [Spondylitis](#)
- [Stomach Neoplasms](#)
- [Temporal Arteritis](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)
- [Urinary Bladder Neoplasms](#)
- [Uterine Cervical Neoplasms](#)
- [Viremia](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)