

NFkB1 p50 Recombinant Protein | NFkB1 recombinant protein

Recombinant NFkB1 p50 (1-434) protein

CATALOG #
AAA60112

HOST
E Coli

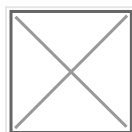
PRODUCT SYNONYMS

NFkB1 p50; Recombinant NFkB1 p50 (1-434) protein; CVID12; EBP-1; NF-kB1; NF-kappa-B; NFkB1 recombinant protein

PRODUCT SPECIFICATIONS

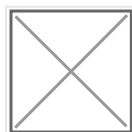
Host	E Coli
Form/Format	Recombinant NFKB1/p50 (1-434) protein is supplied at a concentration of 0.9ug/ul in 25mM Tris pH8.0, 300mM NaCl, 10% glycerol, 0.5mM TCEP.
Protein Species	Human
Tag	GST-Tag
Notes	Recombinant NFKB1/p50 (1-434) protein is suitable for use in protein-protein interaction, in vitro transcription assay, binding assay.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice

IMAGES



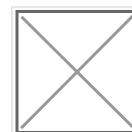
Application Data

HTRF assay for NFKB1 / p50 (1-434) activity 1 uM dsDNA oligos (DNA sequence: 5'-ATGGGGATTCCCCGC-3') were incubated with different concentrations of protein in 10 ul reaction system containing 20 mM Tris-HCl pH 8.0, 150 mM NaCl, 5% glycerol, 0.1% Triton X-100 for 1 hour, then 10 ul GST antibody and SA-XL665 mixture (each 1:100 dilution in HTRF Detection Buffer) were added to each reaction system and incubated for 30 min. All the operations and reactions were performed at room temperature.



SDS-PAGE

Recombinant NFKB1 / p50 (1-434) protein gel 10% SDS-PAGE gel stained with Coomassie blue. MW: 73.9 kDa Purity: ?8



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ADDITIONAL INFORMATION

Related Product Information for NFkB1 recombinant protein	Short Description: Recombinant NFkB1 p50 (1-434) protein including amino acid 1-434 of NFkB1 p105 subunit (accession number NP_003989.2) was expressed in E Coli with an N-terminal GST-Tag. The molecular weight of NFkB1 p50 (1-434) is 73.9 kDa. It is suitable for use in protein-protein interaction studies, in vitro transcription assays and binding assays. Background: NFkB1 (Nuclear Factor Kappa B Subunit 1, also known as CVID12, EBP-1, KBF1, NF-kB1, NF-kappa-B, NF-kappaB, NFkB-p105, NFkB-p50, NFkB, p105, p50) is a DNA binding subunit of the NF-kappa-B (NFkB) protein complex. The precursor NFkB1 is a 105 kDa protein (p105). The 105 kDa protein can undergo cotranslational processing by the 26S proteasome to produce a 50 kD protein (p50). 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 complex plays a significant role in the regulation of genes that control various biological processes, including inflammation, differentiation, tumorigenesis, and cell growth and survival. NFkB is comprised of homo- or heterodimers of different subunits of the structurally related Rel family of transcription factors that includes p50 (NF-kB1), p52 (NF-kB2), p65 (RelA), RelB and c-Rel. p65, RelB and c-Rel contain a transactivation domain (TD) in their C-termini, which is required for the transport of active NFkB complexes into the nucleus. In contrast, subunits p50 and p52 do not contain transactivation domains; they are unable to transactivate on their own and must form heterodimers with p65, RelB or c-Rel. The p50/p65 heterodimers and the p50 homodimers are the most common dimers found in the NFkB signaling pathway. Inactive NFkB dimers are sequestered in the cytoplasm of cells by the Ikb family of inhibitory proteins. Activation of NFkB by external inducers such as lipopolysaccharide, TNF or IL-1, results in the phosphorylation and degradation of the Ikb proteins. This releases NFkB dimers, which subsequently translocate to the nucleus where they activate appropriate target genes.
Product Categories/Family for NFkB1 recombinant protein	Recombinant Proteins; Transcription

NCBI AND UNIPROT INFORMATION

NCBI GI #	34577122
NCBI GeneID	4790
NCBI Accession #	NP_003989.2
NCBI GenBank Nucleotide #	NM_003998.3
UniProt Accession #	P19838; Q68D84; Q86V43; Q8N4X7; Q9NZC0; A8K5Y5; B3KVE8
Molecular Weight	85,520 Da
NCBI Official Full Name	nuclear factor NF-kappa-B p105 subunit isoform 1
NCBI Official Synonym Full Names	nuclear factor of kappa light polypeptide gene enhancer in B-cells 1
NCBI Official Symbol	NFKB1
NCBI Official Synonym Symbols	p50; KBF1; p105; EBP-1; NF-kB1; NFkB-p50; NFkappaB; NF-kappaB; NFkB-p105; NF-kappa-B
NCBI Protein Information	nuclear factor NF-kappa-B p105 subunit; NF-kappabeta; DNA binding factor KBF1; DNA-binding factor KBF1; nuclear factor NF-kappa-B p50 subunit; nuclear factor kappa-B DNA binding subunit
UniProt Protein Name	Nuclear factor NF-kappa-B p105 subunit
UniProt Gene Name	NFKB1
UniProt Entry Name	NFKB1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.