

Datasheet for ABIN7563593

**NF-kB p65 Protein (AA 1-549) (His tag)**[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	NF-kB p65 (NFkBp65)
Protein Characteristics:	AA 1-549
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NF-kB p65 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat Rela Protein expressed in mammalien cells.
Sequence:	MDDLFLIFP SEPAQASGPY VEIIEQPKQR GMRFYKCEG RSAGSIPGER STDTTKTHPT IKINGYTGPG TVRISLVTKD PPHRPHPEL VGKDCRDGYY EADLCPDRSI HSFQNLGIQC VKKRDLQAI SQRIQTNNNP FHVPIEEQRG DYDLNAVRLC FQVTVRDPAG RPLLLTPVLS HPIFDNRAPN TAEIKICRVN RNSGSCLLGGD EIFLLCDKVQ KEDIEVYFTG PGWEARGSFS QADVHRQVAI VFRTPPYADP SLQAPVRVSM QLRRPSDREL SEPMEFQYLP DTDDRHRIEE KRKRTYETFK SIMKKSPFNG PTEPRPPTRR IAVPTRNSTS VPKPAPQPYT FPASLSTINF DEFSPMLLPS GQISNQALAL APSSAPVLAQ TMVPSSAMVP LAQPPAPAPV LTPGPPQSLS APVPKSTQAG EGTLSEALLH LQFDADEDLG ALLGNSTDPG VFTDLASVDN SEFQQLLNQG VSMHSTAEP MLMEYPEAIT RLVTGSQRPP DPAPTPLGTS GLPNGLSGDE DFSSIADMDF SALLSQISS <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag</b>

## Product Details

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**necessary. In case you have a special request, please contact us.**

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### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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### Grade:

custom-made

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## Target Details

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### Target:

NF-kB p65 (NFkBp65)

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### Alternative Name:

Rela ([NFkBp65 Products](#))

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### Background:

Transcription factor p65 (Nuclear factor NF-kappa-B p65 subunit) (Nuclear factor of kappa light polypeptide gene enhancer in B-cells 3),FUNCTION: NF-kappa-B is a pleiotropic transcription factor present in almost all cell types and is the endpoint of a series of signal transduction events that are initiated by a vast array of stimuli related to many biological processes such as inflammation, immunity, differentiation, cell growth, tumorigenesis and apoptosis. NF-kappa-B is a homo- or heterodimeric complex formed by the Rel-like domain-containing proteins RELA/p65, RELB, NFKB1/p105, NFKB1/p50, REL and NFKB2/p52. The heterodimeric RELA-NFKB1 complex appears to be most abundant one. The dimers bind at kappa-B sites in the DNA of their target genes and the individual dimers have distinct preferences for different kappa-B sites that they can bind with distinguishable affinity and specificity. Different dimer combinations act as transcriptional activators or repressors, respectively. The NF-kappa-B heterodimeric RELA-NFKB1 and RELA-REL complexes, for instance, function as transcriptional

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## Target Details

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activators. NF-kappa-B is controlled by various mechanisms of post-translational modification and subcellular compartmentalization as well as by interactions with other cofactors or corepressors. NF-kappa-B complexes are held in the cytoplasm in an inactive state complexed with members of the NF-kappa-B inhibitor (I-kappa-B) family. In a conventional activation pathway, I-kappa-B is phosphorylated by I-kappa-B kinases (IKKs) in response to different activators, subsequently degraded thus liberating the active NF-kappa-B complex which translocates to the nucleus. The inhibitory effect of I-kappa-B on NF-kappa-B through retention in the cytoplasm is exerted primarily through the interaction with RELA. RELA shows a weak DNA-binding site which could contribute directly to DNA binding in the NF-kappa-B complex. Beside its activity as a direct transcriptional activator, it is also able to modulate promoters accessibility to transcription factors and thereby indirectly regulate gene expression (PubMed:29813070). Associates with chromatin at the NF-kappa-B promoter region via association with DDX1. Essential for cytokine gene expression in T-cells (By similarity). The NF-kappa-B homodimeric RELA-RELA complex appears to be involved in invasin-mediated activation of IL-8 expression (By similarity). {ECO:0000250|UniProtKB:Q04206, ECO:0000269|PubMed:21131967, ECO:0000269|PubMed:22244329, ECO:0000269|PubMed:29813070}.

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Molecular Weight: 60.2 kDa

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UniProt: [Q04207](#)

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Pathways: [NF-kappaB Signaling](#), [RTK Signaling](#), [TCR Signaling](#), [TLR Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Activation of Innate immune Response](#), [Cellular Response to Molecule of Bacterial Origin](#), [Hepatitis C](#), [Toll-Like Receptors Cascades](#), [S100 Proteins](#)

## Application Details

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Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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## Handling

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months