Datasheet for ABIN2730698

NF-kB p65 Protein (Transcript Variant 1) (Myc-DYKDDDDK Tag)

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Overview

Quantity:	20 µg
Target:	NF-kB p65 (NFkBP65)
Protein Characteristics:	Transcript Variant 1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This NF-kB p65 protein is labelled with Myc-DYKDDDDK Tag.
Application:	Antibody Production (AbP), Functional Studies (Func), Protein Interaction (PI), Standard (STD)

Product Details

Specificity:	Optimal preservation of protein structure, post-translational modifications and functions.
Characteristics:	• Recombinant human RELA / NF-kB p65 (transcript variant 1) protein expressed in HEK293 cells. • Produced with end-sequenced ORF clone • Tested for bioactivity.
Purity:	> 80 % as determined by SDS-PAGE and Coomassie blue staining
Biological Activity Comment:	RELA Activity Verified in a DNA-binding Assay: RELA activity was measured in a colorimetric DNA-binding assay. Double-stranded oligonucleotide containing the RELA consensus DNA-binding sequence was incubated with dilutions of the purified RELA protein. RELA bound to the oligo was captured onto the surface of a microtiter plate and after washing, bound RELA was

Product Details

detected with an anti-RELA primary antibody followed by an HRP-labeled secondary antibody. After initial color development, the reaction was quenched and the color intensity was measured at 450nm.

Target Details

Target:	NF-kB p65 (NFkBP65)
Alternative Name:	Rela,nf-Kb p65 (NFkBP65 Products)
Background:	NF-kappa-B is a ubiquitous transcription factor involved in several biological processes. It is held in the cytoplasm in an inactive state by specific inhibitors. Upon degradation of the inhibitor, NF-kappa-B moves to the nucleus and activates transcription of specific genes. NF-kappa-B is composed of NFKB1 or NFKB2 bound to either REL, RELA, or RELB. The most abundant form of NF-kappa-B is NFKB1 complexed with the product of this gene, RELA. Four transcript variants encoding different isoforms have been found for this gene.
Molecular Weight:	60 kDa
NCBI Accession:	NP_068810
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

Application Notes:	Recombinant human proteins can be used for: Native antigens for optimized antibody production Positive controls in ELISA and other antibody assays Protein-protein interaction In vitro biochemical assays and cell-based functional assays
Comment:	The tag is located at the C-terminal.
Restrictions:	For Research Use only

Handling

Concentration:	> 50 µg/mL
Buffer:	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol.

Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C. Thaw on ice, aliquot to individual single-use tubes, and then re-freeze immediately. Only 2-3 freeze thaw cycles are recommended.

Publications

Product cited in:

Shree, Singh, Saxena, Kumar, Agarwal, Sharma, Srivastava, Srivastava, Sanyal, Ramachandran: " The M. tuberculosis HAD phosphatase (Rv3042c) interacts with host proteins and is inhibited by Clofazimine." in: **Cellular and molecular life sciences : CMLS**, Vol. 73, Issue 17, pp. 3401-17, (2016) (PubMed).

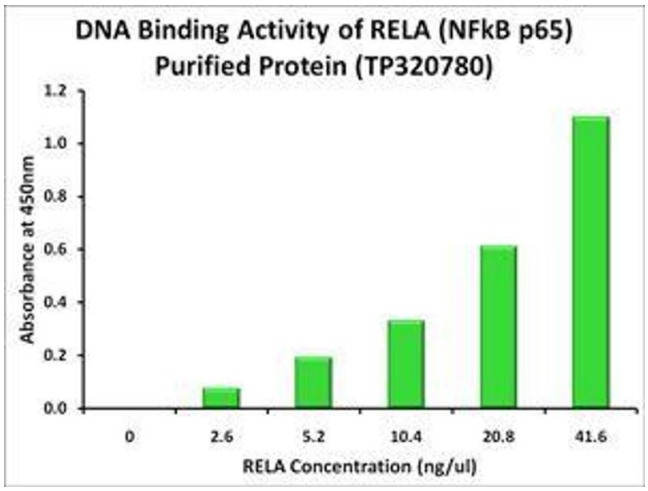
Srinivasan, Blackburn, Lahiri: "Functional characterization of a competitive peptide antagonist of p65 in human macrophage-like cells suggests therapeutic potential for chronic inflammation." in: **Drug design, development and therapy**, Vol. 8, pp. 2409-21, (2015) (PubMed).

Pereira, Hugo, Malaterre, Huiling, Sonza, Cures, Purcell, Ramsland, Gerondakis, Gonda, Ramsay: "MYB elongation is regulated by the nucleic acid binding of NFκB p50 to the intronic stem-loop region." in: **PLoS ONE**, Vol. 10, Issue 4, pp. e0122919, (2015) (PubMed).

Thompson, Larson, Vidrine, Barrios, Navarro, Meyers, Simms, Prajapati, Chitsike, Hellman, Baker, Watkins: "FOXO3-NF-κB RelA Protein Complexes Reduce Proinflammatory Cell Signaling and Function." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 195, Issue 12, pp. 5637-47, (2015) (PubMed).

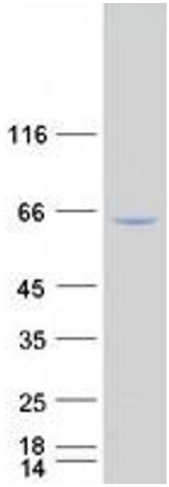
Guo, Lu, Huang, Wu, Zhang, Yu, Zhang, Bao, He, Chen, Jia: "Protective role of PGC-1α in diabetic nephropathy is associated with the inhibition of ROS through mitochondrial dynamic remodeling." in: **PLoS ONE**, Vol. 10, Issue 4, pp. e0125176, (2015) (PubMed).

There are more publications referencing this product on: Product page



Activity Assay

Image 1. Bioactivity measured with Activity Assay



Western Blotting

Image 2. Validation with Western Blot