

Product datasheet for **TP320780**

NF-kB p65 (RELA) (NM_021975) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human v-rel reticuloendotheliosis viral oncogene homolog A (avian) (RELA), transcript variant 1, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC220780 representing NM_021975 Red =Cloning site Green =Tags(s)
	<p>MDLFLPLIFPAEPAQASGPYVEIEQPKQRMFRYKCEGRSAGSIPGERSTDTTKTHPTIKINGYTGPG TVRISLVTKDPPHRPHPHLVGKDCRDGFYEALCPDRCIHSFQNLGIQCVKKRDLEQAISQRIQTNNNP FQVPIEEQRGDYDLNAVRLCFQVTVRDPGRPLRLPPVLSHPIDNRPNTAELKICRVNRNSGSLGGD EIFLLCDKVQKEDIEVYFTGPGWEARGSFQADVHRQVAIVFRTPPYADPSLQAPVRVSMQLRRPSDREL SEPMEFQYLPDTDDRHRIEEKRKRTYETFKSIMKKSPFSGPTDPRPPRRRIAVPSRSSASVPKPAPQPYP FTSSLSTINYDEFPTMVFPSPGISQASALAPAPPQVLPQAPAPAPAPAMVSALAQAAPVPVLAPGPPQA VAPPAPKPTQAGEGTLSEALLQLQFDDDELGALLGNSTDPVFTDLASVDNSEFQQLLNQGIPVAPHTTE PMLMEYPEAITRLVTGAQRPPDPAPAPLGAPGLPNGLLSGDEDFSSIADMDFSALLSQISS</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Tag:	C-Myc/DDK
Predicted MW:	60 kDa
Concentration:	>0.1 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



[View online »](#)

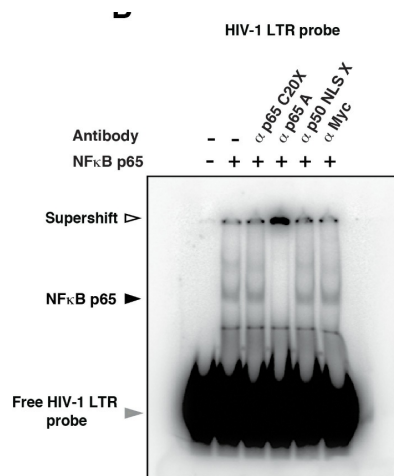
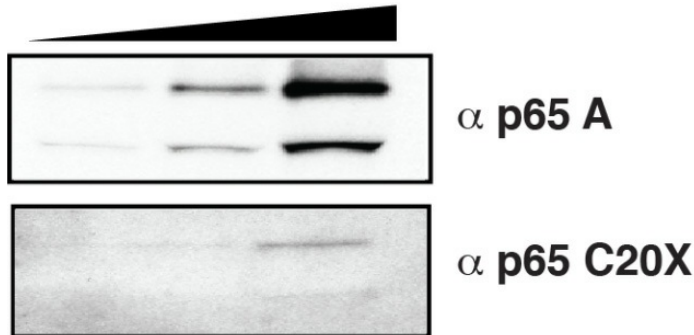
Bioactivity:	<p>RELA Activity Verified in a DNA-binding Assay: RELA activity was measured in a colorimetric DNA-binding assay. Double-stranded oligonucleotide containing the RELA consensus DNA-binding sequence was incubated with dilutions of the purified RELA protein. RELA bound to the oligo was captured onto the surface of a microtiter plate and after washing, bound RELA was 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.</p> <p>ELISA binding assay (PMID: 25584020)</p> <p>WB positive control (PMID: 25853889)</p> <p>EMSA assay (PMID: 25853889)</p> <p>Binding assay (PMID: 26561547)</p> <p>Pull-down assay (PMID: 26984196)</p>
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_068810
Locus ID:	5970
UniProt ID:	Q04206
RefSeq Size:	1760
Cytogenetics:	11q13.1
RefSeq ORF:	1653
Synonyms:	CMCU; NFKB3; p65
Summary:	<p>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. [provided by RefSeq, Sep 2011]</p>
Protein Families:	Druggable Genome, Transcription Factors

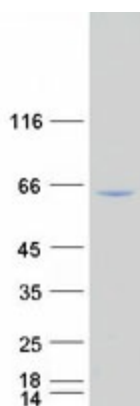
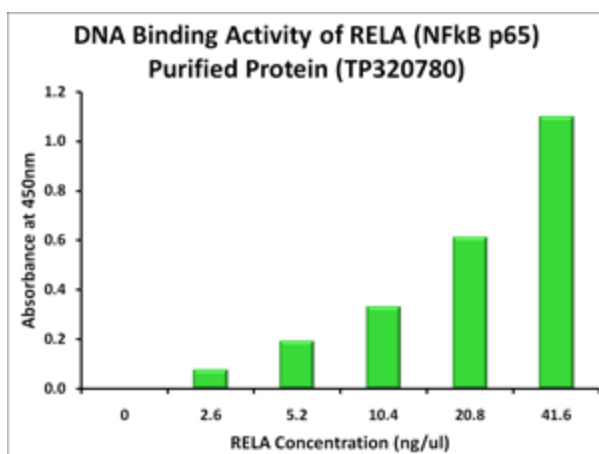
Protein Pathways:

Acute myeloid leukemia, Adipocytokine signaling pathway, Apoptosis, B cell receptor signaling pathway, Chemokine signaling pathway, Chronic myeloid leukemia, Cytosolic DNA-sensing pathway, Epithelial cell signaling in Helicobacter pylori infection, MAPK signaling pathway, Neurotrophin signaling pathway, NOD-like receptor signaling pathway, Pancreatic cancer, Pathways in cancer, Prostate cancer, RIG-I-like receptor signaling pathway, Small cell lung cancer, T cell receptor signaling pathway, Toll-like receptor signaling pathway

Product images:

Recombinant NFκB p65





Coomassie blue staining of purified RELA protein (Cat# TP320780). The protein was produced from HEK293T cells transfected with RELA cDNA clone (Cat# [RC220780]) using MegaTran 2.0 (Cat# [TT210002]).