

## Product datasheet for TP308384M

### NFKB1 (NM\_003998) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human nuclear factor of kappa light polypeptide gene enhancer in B-cells 1 (NFKB1), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC208384 representing NM_003998 Red=Cloning site Green=Tags(s)

MAEDDPYLGRPEQMFHLDPSLTHITFNPEVFQPQMALPTADGPYLQILEQPKQRGFRFRYVCEGPSHGGL  
PGASSEKNKKSYPQVKICNYVGPAAKIVIVQLVTNGKNIHLHAHSLVKGKCEDGICTVTAGPKDMVGFANL  
GILHVTKKKVFETLEARMTEACIRGYNPGLLVHPLDALYLAEGGGDRQLGDREKELIRQAALQQTKEMDL  
SVVRLMFTAFLPDSTGSFTRRLEPVVSDAIYDSKAPNASNLKIVRMDRTAGCVTGGEIYLLCDKVQKDD  
IQIRFYEEEEENGGVWEGFGDFSPDVRQFAIVFKTPKYKDINITKPASVVFQLRRKSDLETSEPKPFLY  
YPEIKDKKEEVQRKRQKLMFNFSDFGGGSGAGAGGGGMFGSGGGGGTGSTGPGYSFPHYGFPTYGGITF  
HPGTTKSNAGMKHGTMDTESKKDPEGCDKSDDKNTVNLFGKVIETTEQDQEPSEATVGNGEVTLTYATGT  
KEESAGVQDNLFLEKAMQLAKRHANALFDYAVTGDVKMLLAVQRHLTAVQDENGDSVLHLAIHLHLSQLV  
RDLEVTSGLISDDIINMRNDLYQTPHLAVITKQEDVVEDLLRAGADLSLLDRLGNSVLHLAAKEGHDK  
VLSILLKHKKAALLLDHPNGDGLNAIHLAMMSNSLPCLLLLVAAGADVNAQEQKSGRTALHLAVEHDNIS  
LAGCLLLEGDAHVDSTTYDGTTPHLIAAGRGSTRLAALLKAAGADPLVENFEPLYDLDDSWENAGEDEGV  
VPGTTPDMATSWQVFDILNGKPYEPEFTSDDLQAQDMKQLAEDVKLQLYKLEIPDPDKNWATLAQKL  
GLGILNNAFRLSPAPSKTLMNDNYEVSGGTVRELVEALRQMGYTEAIEVIQAASSPVKTTSSQAHSLPLSPA  
STRQQIDELRDSVSDSGVETSFRKLSFTESLTSGASLLTLNKMPHDYGGEGPLEGKI

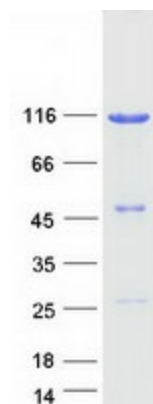
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	105.2 kDa
Concentration:	>0.05 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



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<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_003989</a>
<b>Locus ID:</b>	4790
<b>UniProt ID:</b>	<a href="#">P19838</a>
<b>RefSeq Size:</b>	4104
<b>Cytogenetics:</b>	4q24
<b>RefSeq ORF:</b>	2907
<b>Synonyms:</b>	CVID12; EBP-1; KBF1; NF-kappa-B1; NF-kappaB; NF-kappabeta; NF-kB; NF-kB1; NFkappaB; NFKB-p50; NFKB-p105
<b>Summary:</b>	<p>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. NFKB is a critical regulator of the immediate-early response to viral infection. Alternative splicing results in multiple transcript variants encoding different isoforms, at least one of which is proteolytically processed. [provided by RefSeq, Aug 2020]</p>
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	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, Metabolic pathways, 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:**

Coomassie blue staining of purified NFKB1 protein (Cat# [TP308384]). The protein was produced from HEK293T cells transfected with NFKB1 cDNA clone (Cat# [RC208384]) using MegaTran 2.0 (Cat# [TT210002]).