

## Product datasheet for PH308384

### NFKB1 (NM\_003998) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	NFKB1 MS Standard C13 and N15-labeled recombinant protein (NP_003989)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC208384
Predicted MW:	105.2 kDa
Protein Sequence:	>RC208384 representing NM_003998 Red=Cloning site Green=Tags(s)

MAEDDPYLGRPEQMFHLDPSLTHITFNPEVFQPMALPTADGPYLQILEQPKQGRGFRFRYVCEGPSHGG  
PGASSEKNKKSYPQVKICNYVGPVKVIVQLVTNGKNIHLHAHSLVGKHCEGDGICTVTAGPKDMVVGANL  
GILHVTKKKVFETLEARMTEACIRGYNPGLLVHPDLAYLQAEAGGDRQLGDREKELIRQAALQQTKEMDL  
SVVRLMFTAFLPDSTGSFTRRLEPVVSDAIYDSKAPNASNLKIVRMDRTAGCVTGEEIYLLCDKVQKDD  
IQIRFYEEEEENGWEGFGDFSPDTHVHQFAIVFKTPKYKDINITKPASVFVQLRRKSDLETSEPKPFLY  
YPEIKDKKEEVQRKRQKLMPNFSDSFGGSGAGAGGGMGSGGGGGTGSTGPGYSFPHYGFPTYGGITF  
HPGTTKSNAGMKHGTMDTESKKDPEGCDKSDDKNTVNLFGKVIETTEQDQEPSEATVGNGEVTLYATGT  
KEESAGVQDNLFLEKAMQLAKRHANALFDYAVTGDVKMLLAVQRHLTAVQDENGDSVLHLAIIHLHSQLV  
RDLLEVTSGLISDDIINMRNDLYQTPHLAVITKQEDVVEDLLRAGADLSLLDRLGNSVLHLAAKEGHDK  
VLSILLKHKAALLLDHPNGDGLNAIHLAMMSNSLPCLLLLVAAGADVNAQEQKSGRALHLAVEHDNIS  
LAGCLLLEGAHVDDSTTYDGTTPHLIAAGRGSTRLAALLKAAGADPLVENFEPLYDLDDSWENAGEDEGV  
VPGTTPLDMATSWQVFDILNGKPYEPEFTSDDLQAQDMKQLAEDVKLQLYKLEIPDPDKNWTALAQKL  
GLGILNNAFRLSPAPSKTMDNYEVSGGTVRELVEALRQMGYTEAIEVIQAASSPVKTTSSQAHSPLSPA  
STRQQIDELRDSVCDSGVETSFRKLSFTESLTSGASLLTLNKMPHDYGQEGPLEGKI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

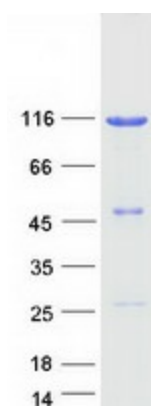
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.



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RefSeq:	<a href="#">NP_003989</a>
RefSeq Size:	4104
RefSeq ORF:	2907
Synonyms:	CVID12; EBP-1; KBF1; NF-kappa-B1; NF-kappaB; NF-kappabeta; NF-kB; NF-kB1; Nfkapab; NFKB-p50; NFKB-p105
Locus ID:	4790
UniProt ID:	<a href="#">P19838</a>
Cytogenetics:	4q24
Summary:	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]
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, 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]).