

## Product datasheet for **TP308384**

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

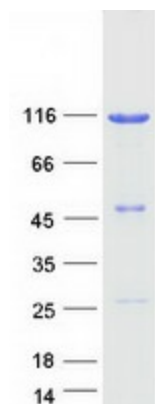
#### Product data:

|                                       |  |
|---------------------------------------|--|
| Product Type:                         | Recombinant Proteins   |
| Description:                          | Recombinant protein of human nuclear factor of kappa light polypeptide gene enhancer in B-cells 1 (NFKB1), 20 µg   |
| Species:                              | Human  |
| Expression Host:                      | HEK293T  |
| Expression cDNA Clone or AA Sequence: | >RC208384 representing NM_003998<br><b>Red</b> =Cloning site <b>Green</b> =Tags(s)   |
|                                       | <p>MAEDDPYLGRPEQMFHLDPSLTHITFNPEVFQPQMALPTADGPYLQILEQPKQGRGFRFRYVCEGPSHGG<br/>L<br/>PGASSEKNKKSYPQVKICNYGPAKVIVQLVTNGKNIHLHAHSLVGKHCDGICTVTAGPKDMVVGANL<br/>GILHVTKKKVFTLEARMTEACIRGYNPGLLVHPDLAYLQAEGGGDRQLGDREKELIRQAALQQTKEMDL<br/>SVVRLMFTAFLPDSTGSFTRRLEPVVSDAIYDSKAPNASNLKIVRMDRTAGCVTGGEIYLLCDKVQKDD<br/>IQIRFYEEEEENGWVEGFGDFSPTDVHRQFAIVFKTPKYKDINITKPASVFVQLRRKSDLETSEPKPFLY<br/>YPEIKDKEEVQRKRQKLMPNFSDFSFGGGSGAGAGGGGGMFGSGGGGGGTGSTGPGYSFPHYGFPTYGGIT<br/>F<br/>HPGTTKSNAGMKHGTMDTESKKDPEGCDKSDDKNTVNLFGKVIETTEQDQEPSEATVGNGEVTLYATG<br/>T<br/>KEESAGVQDNLFLEKAMQLAKRHANALFDYAVTGDVKMLLAVQRHLTAVQDENGDSVLHLAIHLHSQL<br/>V<br/>RDLLEVTSGLISDDIINMRNDLYQTPHLAVITKQEDVVEDLLRAGADLSLLDRLGNSVLHLAAKEGHDK<br/>VLSILLKHKKAAALLLDHPNGDGLNAIHLAMMSNSLPCLLLLVAAGADVNAQEQQSGRTALHLAVEHDNIS<br/>LAGCLLLEGDAHVDSTTYDGTTPLHIAAGRGSTRLAALLKAAGADPLVENFEPLYDLDDSWENAGEDEGV<br/>VPGTTPLDMATSWQVFDILNGKPYEFTSDDLLAQGDMKQLAEDVKLQLYKLEIPDPDKNWATLAQK<br/>L<br/>GLGILNNAFRLSPAPSKTLMNDYEVSGGTRELVEALRQMGYTEAIEVIQAASSPVKTTTSAHSLPLSPA<br/>STRQQIDELRDSVCDSGVETSFRKLSFTESLTSGASLLTLNKMPHDYQGEGPLEGKI</p> <p><b>TR</b>TRPLEQKLISEEDLAANDILDYKDDDDKV</p> |
| Tag:                                  | C-Myc/DDK  |
| Predicted MW:                         | 105.2 kDa  |



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|                          |   |
|--------------------------|---|
| <b>Concentration:</b>    | >0.05 µg/µL as determined by microplate BCA method  |
| <b>Purity:</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining   |
| <b>Buffer:</b>           | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol  |
| <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>          | 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] |
| <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]).