

## Product datasheet for TP307006

### Rel B (RELB) (NM\_006509) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human v-rel reticuloendotheliosis viral oncogene homolog B (RELB), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC207006 representing NM_006509 Red=Cloning site Green=Tags(s)

MLRSGPASGPSVPTGRAMPSRRVARPPAAPELGALGSPDLSSLSLAVSRSTDELEIIDEYIKENGFGLDG  
GQPGPGEGLPRLVSRGAASLSTVTLGVPAPPATPPPWGCPLGRLVSPAPGPGPQPHLVITEQPKQRGMRF  
RYECEGRSAGSILGESSTEASKTLPAIELRDCGGLREVEVTA CLVWKDWPHRVHPHSLVGKDCTDGICRV  
RLRPHVSPRHSFNNLGIQCVRKKEIEAAIERKIQLGIDPYNAGSLKNHQEVDMMNVVRCFQASYRDQQGQ  
MRRMDPVLSEPVYDKKSTNTSELRICRINKESGPCTGGEELYLLCDKVQKEDISVVFSRASWEGRADFSQ  
ADVHRQIAIVFKTPPYEDLEIVEPVTNVFLQRLTDGVCSEPLPFTYLPRDHDSYGVDKKRKRGMPDVLG  
ELNSSDPHGIESKRKKKPAILDHFLPNHGSGPFLPPSALLPDPDFSGTVSLPGLEPPGGPDLLDDGFA  
YDPTAPTFLTMLDLLPPAPPHASAVVCSGGAGAVGETPGPEPLTLD SYQAPGPGDGGTASLVGSNMFPN  
HYREAAFGGGLLSPGPEAT

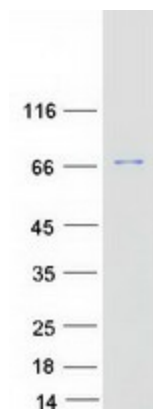
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	62 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
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.



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<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_006500</a>
<b>Locus ID:</b>	5971
<b>UniProt ID:</b>	<a href="#">Q01201</a>
<b>RefSeq Size:</b>	2287
<b>Cytogenetics:</b>	19q13.32
<b>RefSeq ORF:</b>	1737
<b>Synonyms:</b>	I-REL; IMD53; IREL; REL-B
<b>Summary:</b>	<p>NF-kappa-B is a pleiotropic transcription factor which is present in almost all cell types and is involved in many biological processes such as inflammation, immunity, differentiation, cell growth, tumorigenesis and apoptosis. NF-kappa-B is a homo- or heterodimeric complex formed by the Rel-like domain-containing proteins RELA/p65, RELB, NFKB1/p105, NFKB1/p50, REL and NFKB2/p52. The dimers bind at kappa-B sites in the DNA of their target genes and the individual dimers have distinct preferences for different kappa-B sites that they can bind with distinguishable affinity and specificity. Different dimer combinations act as transcriptional activators or repressors, respectively. NF-kappa-B is controlled by various mechanisms of post-translational modification and subcellular compartmentalization as well as by interactions with other cofactors or corepressors. NF-kappa-B complexes are held in the cytoplasm in an inactive state complexed with members of the NF-kappa-B inhibitor (I-kappa-B) family. In a conventional activation pathway, I-kappa-B is phosphorylated by I-kappa-B kinases (IKKs) in response to different activators, subsequently degraded thus liberating the active NF-kappa-B complex which translocates to the nucleus. NF-kappa-B heterodimeric RelB-p50 and RelB-p52 complexes are transcriptional activators. RELB neither associates with DNA nor with RELA/p65 or REL. Stimulates promoter activity in the presence of NFKB2/p49. As a member of the NUPR1/RELB/IER3 survival pathway, may provide pancreatic ductal adenocarcinoma with remarkable resistance to cell stress, such as starvation or gemcitabine treatment. Regulates the circadian clock by repressing the transcriptional activator activity of the CLOCK-ARNTL/BMAL1 heterodimer in a CRY1/CRY2 independent manner. Increased repression of the heterodimer is seen in the presence of NFKB2/p52. Is required for both T and B lymphocyte maturation and function (PubMed:26385063).[UniProtKB/Swiss-Prot Function]</p>
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	MAPK signaling pathway

**Product images:**

Coomassie blue staining of purified RELB protein (Cat# TP307006). The protein was produced from HEK293T cells transfected with RELB cDNA clone (Cat# [RC207006]) using MegaTran 2.0 (Cat# [TT210002]).