Datasheet for ABIN7555161

RELB Protein (AA 1-579) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	RELB
Protein Characteristics:	AA 1-579
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RELB protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat RELB Protein expressed in mammalien cells.
Sequence:	MLRSGPASGP SVPTGRAMPS RRVARPPAAP ELGALGSPDL SSLSLAVSRS TDELEIIDEY IKENGFGLDG GQPGPGEGLP RLVSRGAASL STVTLGPVAP PATPPPWGCP LGRLVSPAPG PGPQPHLVIT EQPKQRGMRF RYECEGRSAG SILGESSTEA SKTLPAIELR DCGGLREVEV TACLVWKDWP HRVHPHSLVG KDCTDGICRV RLRPHVSPRH SFNNLGIQCV RKKEIEAAIE RKIQLGIDPY NAGSLKNHQE VDMNVVRICF QASYRDQQGQ MRRMDPVLSE PVYDKKSTNT SELRICRINK ESGPCTGGEE LYLLCDKVQK EDISVVFSRA SWEGRADFSQ ADVHRQIAIV FKTPPYEDLE IVEPVTVNVF LQRLTDGVCS EPLPFTYLPR DHDSYGVDKK RKRGMPDVLG ELNSSDPHGI ESKRRKKKPA ILDHFLPNHG SGPFLPPSAL LPDPDFFSGT VSLPGLEPPG GPDLLDDGFA YDPTAPTLFT MLDLLPPAPP HASAVVCSGG AGAVVGETPG PEPLTLDSYQ APGPGDGGTA SLVGSNMFPN HYREAAFGGG LLSPGPEAT **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different**

Product Details

	complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	RELB
Alternative Name:	RELB (RELB Products)
Background:	Transcription factor RelB (I-Rel),FUNCTION: NF-kappa-B is a pleiotropic transcription factor which is present in almost all cell types and is involved in many biological processed 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

Target Details

	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-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). {ECO:0000269|PubMed:1732739, ECO:0000269|PubMed:22565310, ECO:0000269|PubMed:26385063, ECO:0000269|PubMed:7925301, ECO:0000269|PubMed:8441398}.
Molecular Weight:	62.1 kDa
UniProt:	Q01201
Pathways:	NF-kappaB Signaling, RTK Signaling

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months