antibodies

Datasheet for ABIN5712728 NFKB1 Protein (AA 1-961, partial) (GST tag)



Overview

Image

Quantity:	100 µg	
Target:	NFKB1	
Protein Characteristics:	AA 1-961, partial	
Origin:	Human	
Source:	Escherichia coli (E. coli)	
Protein Type:	Recombinant	
Purification tag / Conjugate:	This NFKB1 protein is labelled with GST tag.	
Application:	SDS-PAGE (SDS)	

Product Details

Sequence:	MAEDDPYLGR PEQMFHLDPS LTHTIFNPEV FQPQMALPTA DGPYLQILEQ PKQRGFRFRY
	VCEGPSHGGL PGASSEKNKK SYPQVKICNY VGPAKVIVQL VTNGKNIHLH AHSLVGKHCE
	DGICTVTAGP KDMVVGFANL GILHVTKKKV FETLEARMTE ACIRGYNPGL LVHPDLAYLQ
	AEGGGDRQLG DREKELIRQA ALQQTKEMDL SVVRLMFTAF LPDSTGSFTR RLEPVVSDAI
	YDSKAPNASN LKIVRMDRTA GCVTGGEEIY LLCDKVQKDD IQIRFYEEEE NGGVWEGFGD
	FSPTDVHRQF AIVFKTPKYK DINITKPASV FVQLRRKSDL ETSEPKPFLY YPEIKDKEEV
	QRKRQKLMPN FSDSFGGGSG AGAGGGGMFG SGGGGGGTGS TGPGYSFPHY GFPTYGGITF
	HPGTTKSNAG MKHGTMDTES KKDPEGCDKS DDKNTVNLFG KVIETTEQDQ EPSEATVGNG
	EVTLTYATGT KEESAGVQDN LFLEKAMQLA KRHANALFDY AVTGDVKMLL AVQRHLTAVQ
	DENGDSVLHL AIIHLHSQLV RDLLEVTSGL ISDDIINMRN DLYQTPLHLA VITKQEDVVE
	DLLRAGADLS LLDRLGNSVL HLAAKEGHDK VLSILLKHKK AALLLDHPNG DGLNAIHLAM
	MSNSLPCLLL LVAAGADVNA QEQKSGRTAL HLAVEHDNIS LAGCLLLEGD AHVDSTTYDG

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Purity:	> 90 %
Purification:	SDS-PAGE
	QAHSLPLSPA STRQQIDELR DSDSVCDSGV ETSFRKLSFT ESLTSGASLL TLNKMPHDYG Q
	GLGILNNAFR LSPAPSKTLM DNYEVSGGTV RELVEALRQM GYTEAIEVIQ AASSPVKTTS
	TSWQVFDILN GKPYEPEFTS DDLLAQGDMK QLAEDVKLQL YKLLEIPDPD KNWATLAQKL
	TTPLHIAAGR GSTRLAALLK AAGADPLVEN FEPLYDLDDS WENAGEDEGV VPGTTPLDMA

Target Details

Target:	NFKB1
Alternative Name:	NFKB1 (NFKB1 Products)
Background:	NF-kappa-B is a pleiotropic transcription factor present in almost all cell types and is the
	endpoint of a series of signal transduction events that are initiated by a vast array of stimuli
	related to 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 and the heterodimeric p65-p50 complex appears to be most abundant one. 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 mbers 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 p65-p50 and RelB-p50 complexes
	are transcriptional activators. The NF-kappa-B p50-p50 homodimer is a transcriptional
	repressor, but can act as a transcriptional activator when associated with BCL3. NFKB1
	appears to have dual functions such as cytoplasmic retention of attached NF-kappa-B proteins

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by p105 and generation of p50 by a cotranslational processing. The proteasome-mediated

function, although processing of NFKB1/p105 also appears to occur post-translationally. p50

genes involved in immune response and acute phase reactions. In a complex with MAP3K8,

binds to the kappa-B consensus sequence 5'-GGRNNYYCC-3', located in the enhancer region of

process ensures the production of both p50 and p105 and preserves their independent

Target Details	
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	NFKB1/p105 represses MAP3K8-induced MAPK signaling, active MAP3K8 is released by proteasome-dependent degradation of NFKB1/p105.
Molecular Weight:	131.9 kDa
UniProt:	P19838
Pathways:	p53 Signaling, NF-kappaB Signaling, RTK Signaling, TCR Signaling, TLR Signaling, Fc-epsilon Receptor Signaling Pathway, Neurotrophin Signaling Pathway, Activation of Innate immune Response, Myometrial Relaxation and Contraction, Regulation of Carbohydrate Metabolic Process, Hepatitis C, Toll-Like Receptors Cascades, BCR Signaling, S100 Proteins

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.	
Restrictions:	For Research Use only	

Handling

Format:	Liquid	
Concentration:	0.1-2 mg/mL	
Buffer:	20 mM Tris-HCl based buffer, pH 8.0	
Storage:	-80 °C,4 °C,-20 °C	
Storage Comment:	Store at -20°C, for extended storage, conserve at -20°C or -80°C. Repeated freezing and thawi is not recommended. Store working aliquots at 4°C for up to one week.	

Images

116 kDa	SDS-PAGE
66.2 kDa	Image 1.
45 kDa	
35 kDa	
25 kDa	
18. 4kDa	
14.4 kDa	

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