Datasheet for ABIN7554704

IKBKG Protein (AA 1-419) (His tag)

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Overview

Quantity:	1 mg
Target:	IKBKG
Protein Characteristics:	AA 1-419
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IKBKG protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat IKBKG Protein expressed in mammalien cells.
Sequence:	MNRHLWKSQL CEMVQPSGGP AADQDVLGEE SPLGKPAMLH LPSEQGAPET LQRCLEENQE LRDAIRQSNQ ILRERCEELL HFQASQREEK EFLMCKFQEA RKLVERLGLE KLDLKRQKEQ ALREVEHLKR CQQQMAEDKA SVKAQVTSLL GELQESQSRL EAATKECQAL EGRARAASEQ ARQLESEREA LQQQHSVQVD QLRMQGQSVE AALRMERQAA SEEKRKLAQL QVAYHQLFQE YDNHIKSSVV GSERKRGMQL EDLKQQLQQA EEALVAKQEV IDKLKEEAEQ HKIVMETVPV LKAQADIYKA DFQAERQARE KLAEKKELLQ EQLEQLQREY SKLKASCQES ARIEDMRKRH VEVSQAPLPP APAYLSSPLA LPSQRRSPPE EPPDFCCPKC QYQAPDMDTL QIHVMECIE **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Characteristics:	Key Benefits:

Product Details

- 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:	IKBKG
Alternative Name:	IKBKG (IKBKG Products)
Background:	NF-kappa-B essential modulator (NEMO) (FIP-3) (IkB kinase-associated protein 1) (IKKAP1) (Inhibitor of nuclear factor kappa-B kinase subunit gamma) (I-kappa-B kinase subunit gamma) (IKK-gamma) (IKKG) (IkB kinase subunit gamma) (NF-kappa-B essential modifier),FUNCTION: Regulatory subunit of the IKK core complex which phosphorylates inhibitors of NF-kappa-B thus leading to the dissociation of the inhibitor/NF-kappa-B complex and ultimately the degradation of the inhibitor (PubMed:9751060, PubMed:14695475, PubMed:20724660, PubMed:21518757). Its binding to scaffolding polyubiquitin plays a key role in IKK activation by multiple signaling receptor pathways (PubMed:16547522, PubMed:18287044, PubMed:19033441, PubMed:21606507, PubMed:27777308, PubMed:19185524, PubMed:33567255). Can recognize and bind both 'Lys-63'-linked and linear polyubiquitin upon cell stimulation, with a much higher affinity for linear polyubiquitin (PubMed:16547522, PubMed:18287044, PubMed:27777308, PubMed:19033441, PubMed:21606507, PubMed:19185524). Could be implicated in NF-kappa-B-mediated protection from cytokine toxicity. Essential for viral activation of IRF3 (PubMed:19854139). Involved in TLR3- and IFIH1-

Target Details

	mediated antiviral innate response, this function requires 'Lys-27'-linked polyubiquitination (PubMed:20724660). {ECO:0000269|PubMed:14695475, ECO:0000269|PubMed:16547522, ECO:0000269|PubMed:18287044, ECO:0000269|PubMed:19033441, ECO:0000269|PubMed:19185524, ECO:0000269|PubMed:19854139, ECO:0000269|PubMed:20724660, ECO:0000269|PubMed:21518757, ECO:0000269|PubMed:21606507, ECO:0000269|PubMed:27777308, ECO:0000269|PubMed:33567255, ECO:0000269|PubMed:9751060}., FUNCTION: (Microbial infection) Also considered to be a mediator for HTLV-1 Tax oncoprotein activation of NF-kappa-B. {ECO:0000269|PubMed:10364167, ECO:0000269|PubMed:11064457}.
Molecular Weight:	48.2 kDa
UniProt:	Q9Y6K9
Pathways:	NF-kappaB Signaling, RTK Signaling, TCR Signaling, TLR Signaling, Fc-epsilon Receptor Signaling Pathway, Activation of Innate immune Response, M Phase, Production of Molecular Mediator of Immune Response, Hepatitis C, Protein targeting to Nucleus, Toll-Like Receptors Cascades, BCR Signaling, Ubiquitin Proteasome Pathway, S100 Proteins

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