

Datasheet for ABIN7563940 MAP3K7 Protein (AA 1-579) (His tag)



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Overview	
Quantity:	1 mg
Target:	MAP3K7
Protein Characteristics:	AA 1-579
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAP3K7 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Map3k7 Protein expressed in mammalien cells.
Sequence:	MSTASAASSS SSSSASEMIE APSQVLNFEE IDYKEIEVEE VVGRGAFGVV CKAKWRAKDV
	AIKQIESESE RKAFIVELRQ LSRVNHPNIV KLYGACLNPV CLVMEYAEGG SLYNVLHGAE
	PLPYYTAAHA MSWCLQCSQG VAYLHSMQPK ALIHRDLKPP NLLLVAGGTV LKICDFGTAC
	DIQTHMTNNK GSAAWMAPEV FEGSNYSEKC DVFSWGIILW EVITRRKPFD EIGGPAFRIM
	WAVHNGTRPP LIKNLPKPIE SLMTRCWSKD PSQRPSMEEI VKIMTHLMRY FPGADEPLQY
	PCQYSDEGQS NSATSTGSFM DIASTNTSNK SDTNMEQVPA TNDTIKRLES KLLKNQAKQQ
	SESGRLSLGA SRGSSVESLP PTSEGKRMSA DMSEIEARIV ATAGNGQPRR RSIQDLTVTG
	TEPGQVSSRS SSPSVRMITT SGPTSEKPAR SHPWTPDDST DTNGSDNSIP MAYLTLDHQL
	QPLAPCPNSK ESMAVFEQHC KMAQEYMKVQ TEIALLLQRK QELVAELDQD EKDQQNTSRL
	VQEHKKLLDE NKSLSTYYQQ CKKQLEVIRS QQQKRQGTS Sequence without tag. The proposed
	Purification-Tag is based on experiences with the expression system, a different complexity

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	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:	MAP3K7
Alternative Name:	Map3k7 (MAP3K7 Products)
Background:	Mitogen-activated protein kinase kinase kinase 7 (EC 2.7.11.25) (Transforming growth factor-
	beta-activated kinase 1) (TGF-beta-activated kinase 1),FUNCTION: Serine/threonine kinase
	which acts as an essential component of the MAP kinase signal transduction pathway
	(PubMed:10748100, PubMed:16157589, PubMed:21183079, PubMed:29291351). Plays an
	important role in the cascades of cellular responses evoked by changes in the environment
	(PubMed:10748100, PubMed:16157589, PubMed:21183079, PubMed:29291351). Mediates
	signal transduction of TRAF6, various cytokines including interleukin-1 (IL-1), transforming
	growth factor-beta (TGFB), TGFB-related factors like BMP2 and BMP4, toll-like receptors (TLR),
	tumor necrosis factor receptor CD40 and B-cell receptor (BCR) (PubMed:8533096,
	PubMed:10748100, PubMed:16157589, PubMed:21183079, PubMed:29291351). Once
	activated, acts as an upstream activator of the MKK/JNK signal transduction cascade and the

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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.
Application Details	
	Response, Tube Formation, Toll-Like Receptors Cascades, BCR Signaling, Ubiquitin Proteasome Pathway
	Regulation of Immune Effector Process, Production of Molecular Mediator of Immune
	Activation of Innate immune Response, Regulation of Leukocyte Mediated Immunity, Positive
Pathways:	NF-kappaB Signaling, TCR Signaling, TLR Signaling, Fc-epsilon Receptor Signaling Pathway,
UniProt:	Q62073
Molecular Weight:	64.2 kDa
	EC0:0000269 PubMed:37832545, EC0:0000269 PubMed:8533096}.
	EC0:0000269 PubMed:28842570, EC0:0000269 PubMed:29291351,
	ECO:0000269 PubMed:17965022, ECO:0000269 PubMed:21183079,
	ECO:0000269 PubMed:10748100, ECO:0000269 PubMed:16157589,
	translocation to COPII vesicles (PubMed:37832545). {ECO:0000250 UniProtKB:043318,
	cGAMP-activation, promoting association between STEEP1 and STING1 and STING1
	FADD to mediate apoptosis (PubMed:28842570). Phosphorylates STING1 in response to
	promote necroptosis but negatively regulates RIPK1 kinase activity and its interaction with
	Phosphorylates RIPK1 at 'Ser-321' which positively regulates RIPK1 interaction with RIPK3 to
	NF-kappa-B (By similarity). Promotes TRIM5 capsid-specific restriction activity (By similarity).
	osmotic stress signaling, plays a major role in the activation of MAPK8/JNK1, but not that of
	IKBKB/IKKB component of the IKK complex, leading to NF-kappa-B activation (By similarity). In
	TAB2/MAP3K7IP2 and TAB3/MAP3K7IP3, and catalyzes phosphorylation and activation of
	Mechanistically, recruited to polyubiquitin chains of RIPK2 and IKBKG/NEMO via
	B by promoting activation of the I-kappa-B-kinase (IKK) core complex (PubMed:17965022).
	(By similarity). Independently of MAP2Ks and p38 MAPKs, acts as a key activator of NF-kappa-
	both p38 MAPK and JNK pathways control the transcription factors activator protein-1 (AP-1)
	(By similarity). These MAP2Ks in turn activate p38 MAPKs and c-jun N-terminal kinases (JNKs),
	p38 MAPK signal transduction cascade through the phosphorylation and activation of several MAP kinase kinases like MAP2K1/MEK1, MAP2K3/MKK3, MAP2K6/MKK6 and MAP2K7/MKK7

Restrictions:

For Research Use only

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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