Datasheet for ABIN7554448

MAP4K2 Protein (AA 1-820) (His tag)

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Overview

Quantity:	1 mg
Target:	MAP4K2
Protein Characteristics:	AA 1-820
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAP4K2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat MAP4K2 Protein expressed in mammalien cells.
Sequence:	MALLRDVSLQ DPRDRFELLQ RVGAGTYGDV YKARDTVTSE LAAVKIVKLD PGDDISSLQQ EITILRECRH PNVVAYIGSY LRNDRLWICM EFCGGGSLQE IYHATGPLEE RQIAYVCREA LKGLHHLHSQ GKIHRDIKGA NLLLTLQGDV KLADFGVSGE LTASVAKRRS FIGTPYWMAP EVAAVERKGG YNELCDVWAL GITAIELGEL QPPLFHLHPM RALMLMSKSS FQPPKLRDKT RWTQNFHHFL KLALTKNPKK RPTAEKLLQH PFTTQQLPRA LLTQLLDKAS DPHLGTPSPE DCELETYDMF PDTIHSRGQH GPAERTPSEI QFHQVKFGAP RRKETDPLNE PWEEEWTLLG KEELSGSLLQ SVQEALEERS LTIRSASEFQ ELDSPDDTMG TIKRAPFLGP LPTDPPAEEP LSSPPGTLPP PPSGPNSSPL LPTAWATMKQ REDPERSSCH GLPPTPKVHM GACFSKVFNG CPLRIHAAVT WIHPVTRDQF LVVGAEEGIY TLNLHELHED TLEKLISHRC SWLYCVNNVL LSLSGKSTHI WAHDLPGLFE QRRLQQQVPL SIPTNRLTQR IIPRRFALST KIPDTKGCLQ CRVVRNPYTG ATFLLAALPT SLLLLQWYEP LQKFLLLKNF SSPLPSPAGM LEPLVLDGKE

Product Details

	LPQVCVGAEG PEGPGCRVLF HVLPLEAGLT PDILIPPEGI PGSAQQVIQV DRDTILVSFE RCVRIVNMQG EPTATLAPEL TFDFPIETVV CLQDSVLAFW SHGMQGRSLD TNEVTQEITD ETRIFRVLGA HRDIILESIP TDNPEAHSNL YILTGHQSTY **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: • 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:	MAP4K2
Alternative Name:	MAP4K2 (MAP4K2 Products)
Background:	Mitogen-activated protein kinase kinase kinase kinase 2 (EC 2.7.11.1) (B lymphocyte serine/threonine-protein kinase) (Germinal center kinase) (GC kinase) (MAPK/ERK kinase kinase kinase 2) (MEK kinase kinase 2) (MEKKK 2) (Rab8-interacting protein),FUNCTION: Serine/threonine-protein kinase which acts as an essential component of the MAP kinase signal transduction pathway. Acts as a MAPK kinase kinase kinase (MAP4K) and is an upstream activator of the stress-activated protein kinase/c-Jun N-terminal kinase (SAP/JNK) signaling pathway and to a lesser extent of the p38 MAPKs signaling pathway. Required for the

Target Details

	efficient activation of JNKs by TRAF6-dependent stimuli, including pathogen-associated molecular patterns (PAMPs) such as polyinosine-polycytidine (poly(IC)), lipopolysaccharides (LPS), lipid A, peptidoglycan (PGN), or bacterial flagellin. To a lesser degree, IL-1 and engagement of CD40 also stimulate MAP4K2-mediated JNKs activation. The requirement for MAP4K2/GCK is most pronounced for LPS signaling, and extends to LPS stimulation of c-Jun phosphorylation and induction of IL-8. Enhances MAP3K1 oligomerization, which may relieve N-terminal mediated MAP3K1 autoinhibition and lead to activation following autophosphorylation. Mediates also the SAP/JNK signaling pathway and the p38 MAPKs signaling pathway through activation of the MAP3Ks MAP3K10/MLK2 and MAP3K11/MLK3. May play a role in the regulation of vesicle targeting or fusion. regulation of vesicle targeting or fusion. {ECO:0000269|PubMed:11784851, ECO:0000269|PubMed:15456887, ECO:0000269|PubMed:17584736, ECO:0000269|PubMed:7477268, ECO:0000269|PubMed:7515885, ECO:0000269|PubMed:9712898}.
Molecular Weight:	91.6 kDa
UniProt:	Q12851

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