Datasheet for ABIN3093709

MAP4K4 Protein (AA 2-1239) (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	MAP4K4
Protein Characteristics:	AA 2-1239
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAP4K4 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys)

Product Details

Sequence:	ANDSPAKSLV DIDLSSLRDP AGIFELVEVV GNGTYGQVYK GRHVKTGQLA AIKVMDVTED EEEEIKLEIN MLKKYSHHRN IATYYGAFIK KSPPGHDDQL WLVMEFCGAG SITDLVKNTK GNTLKEDWIA YISREILRGL AHLHIHHVIH RDIKGQNVLL TENAEVKLVD FGVSAQLDRT VGRRNTFIGT PYWMAPEVIA CDENPDATYD YRSDLWSCGI TAIEMAEGAP PLCDMHPMRA LFLIPRNPPP RLKSKKWSKK FFSFIEGCLV KNYMQRPSTE QLLKHPFIRD QPNERQVRIQ LKDHIDRTRK KRGEKDETEY EYSGSEEEEE EVPEQEGEPS SIVNVPGEST LRRDFLRLQQ ENKERSEALR RQQLLQEQQL REQEEYKRQL LAERQKRIEQ QKEQRRRLEE QQRREREARR QQEREQRRRE QEEKRRLEEL ERRRKEEEER RRAEEEKRRV EREQEYIRRQ LEEEQRHLEV LQQQLLQEQA MLLECRWREM EEHRQAERLQ RQLQQEQAYL LSLQHDHRRP HPQHSQQPPP PQQERSKPSF HAPEPKAHYE PADRAREVED RFRKTNHSSP EAQSKQTGRV LEPPVPSRSE SFSNGNSESV HPALQRPAEP QVPVRTTSRS PVLSRRDSPL QGSGQQNSQA GQRNSTSIEP RLLWERVEKL VPRPGSGSSS GSSNSGSQPG SHPGSQSGSG ERFRVRSSSK SEGSPSQRLE

	NAVKKPEDKK EVFRPLKPAD LTALAKELRA VEDVRPPHKV TDYSSSSEES GTTDEEDDDV EQEGADESTS GPEDTRAASS LNLSNGETES VKTMIVHDDV ESEPAMTPSK EGTLIVRQTQ SASSTLQKHK SSSSFTPFID PRLLQISPSS GTTVTSVVGF SCDGMRPEAI RQDPTRKGSV VNVNPTNTRP QSDTPEIRKY KKRFNSEILC AALWGVNLLV GTESGLMLLD RSGQGKVYPL INRRRFQQMD VLEGLNVLVT ISGKKDKLRV YYLSWLRNKI LHNDPEVEKK QGWTTVGDLE GCVHYKVVKY ERIKFLVIAL KSSVEVYAWA PKPYHKFMAF KSFGELVHKP LLVDLTVEEG QRLKVIYGSC AGFHAVDVDS GSVYDIYLPT HIQCSIKPHA IIILPNTDGM ELLVCYEDEG VYVNTYGRIT KDVVLQWGEM PTSVAYIRSN QTMGWGEKAI EIRSVETGHL DGVFMHKRAQ RLKFLCERND KVFFASVRSG GSSQVYFMTL GRTSLLSW **Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**
Characteristics:	• Made in Germany - from design to production - by highly experienced protein experts. • Human MAP4K4 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. • 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 will ensure that you receive a correctly folded protein. 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. In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization). When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer. The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate

Product Details

	fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	MAP4K4
Alternative Name:	MAP4K4 (MAP4K4 Products)
Background:	Serine/threonine kinase that may play a role in the response to environmental stress and cytokines such as TNF-alpha. Appears to act upstream of the JUN N-terminal pathway. Phosphorylates SMAD1 on Thr-322. {ECO:0000269|PubMed:21690388, ECO:0000269|PubMed:9890973}.
Molecular Weight:	142.9 kDa Including tag.
UniProt:	O95819

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 gurantee though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

Handling

Format:	Liquid

Handling

Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)

Images

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process