

Datasheet for ABIN3137332

MAP4K6 Protein (AA 1-1308) (His tag)



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1 Image

Overview

Quantity:	1 mg
Target:	MAP4K6 (MINK1)
Protein Characteristics:	AA 1-1308
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAP4K6 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys), ELISA

Product Details

Sequence:	<p>MGDPAPARSL DDIDLSALRD PAGIFELVEV VGNGTYGQVY KGRHVKTGQL AAIKVM DVTE</p> <p>DEEEIKQEI NMLKKYSHHR NIATYYGAFI KKSPPGNDDQ LWLVMEFCGA GSVTDLVKNT</p> <p>KGNALKEDCI AYICREILRG LAHLHAHKVI HRDIKGQNV L TENAEVKLV DFGVSAQLDR</p> <p>TVGRRNTFIG TPYWMAPEVI ACDENPDATY DYRSDIWSLG ITAIEMAEGA PPLCDMHPMR</p> <p>ALFLIPRNPP PRLKSKKWSK KFTDFIDTCL IKTYLSRPPT EQLLKFPFIR DQPTERQVRI</p> <p>QLKDHDIDRSR KKRGEKEETE YEYSGSEED DSHGEEGEP S SIMNVPGEST LRREFLRLQQ</p> <p>ENKSNSEALK QQQQLQQQQQ RDPEAHIKHL LHQRQRRIEE QKEERRRVEE QRRREREQRK</p> <p>LQEKEQQRRL EDMQALRREE ERRQAEREQE YKRKQLEEQR QSERLQRQLQ QEHAYLKS LQ</p> <p>QQQQQQQLQK QQQQQQQILP GDRKPLYHYG RGINPADKPA WAREVEERAR MNKQQNSPLA</p> <p>KAKPSSAGPE PPISQASPS PPGPLSQTPPM QRPVEPQEGP HKSLVAHRVP LKPYAAPVPR</p> <p>SQSLQDQPTR NLAAFPASHD PDPAAVPTPT ATPSARGAVI RQNSDPTSEG PGPSPNPPSW</p> <p>VRPDNEAPPK VPQRTSSIAT ALNTSGAGGS RPAQAVRAS N PDLRRSDPGW ERSDSVLPAS</p>
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HGHLPPQAGSL ERNRNRVGAS TKLDSSPVLS PGNKAKPEDH RSRPGRPASY KRAIGEDFVL
LKERTLDEAP KPPKKAMDYS SSSEEVESSE EEEEEGDGEP SEGSRDTPGG RSDGDTDSVS
TMVVHDVEEI SGTQPSYGGG TMVVQRTPEE ERSLLLADSN GYTNLDPVVQ PSHSPTENSK
GQSPPTKDGG SDYQSRGLVK APGKSSFTMF VDLGIYQPGG SGTIPITAL VGGEGGRLDQ
LQFDVRKGSV VNVNPTNTRA HSETPEIRKY KKRNFSEILC AALWGVNLLV GTENGLMLLD
RSGQGKVVYGL IGRRRFQMD VLEGLNLLIT ISGKRNLKRV YYLSWLRNKI LHNDPEVEKK
QGWTTVGDME GCGHYRVVKY ERIKFLVIAL KNSVEVYAWA PKPYHKFMAF KSFADLPHRP
LLVDLTVEEG QRLKVIYGSS AGFHAVDVDS GNSYDIYIPV HIQSQITPHA IIFLPNTDGM
EMLLCYEDEG VYVNTYGRII KDVVLQWGEM PTSVAYICSN QIMGWGEKAI EIRSVETGHL
DGVFMHKRAQ RLFKLCERNL KVFFASVRSG GSSQVYFMTL NRNCIMNW

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.
- Mouse Mink1 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 receipt 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

Product Details

- different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate 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:	MAP4K6 (MINK1)
Alternative Name:	Mink1 (MINK1 Products)
Background:	Serine/threonine kinase which acts as a negative regulator of Ras-related Rap2-mediated signal transduction to control neuronal structure and AMPA receptor trafficking. Required for normal synaptic density, dendrite complexity, as well as surface AMPA receptor expression in hippocampal neurons. Can activate the JNK and MAPK14/p38 pathways and mediates stimulation of the stress-activated protein kinase MAPK14/p38 MAPK downstream of the Raf/ERK pathway. Phosphorylates: TANC1 upon stimulation by RAP2A, MBP and SMAD1. Has an essential function in negative selection of thymocytes, perhaps by coupling NCK1 to activation of JNK1. {ECO:0000269 PubMed:10708748, ECO:0000269 PubMed:15608642}.
Molecular Weight:	148.2 kDa Including tag.
UniProt:	Q9JM52
Pathways:	Synaptic Membrane

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.
Comment:	Protein has not been tested for activity yet. 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

Application Details

options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

Handling

Format: Liquid

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