

Datasheet for ABIN3134735

**MAP4K4 Protein (AA 2-1233) (His tag)****1** Image[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	MAP4K4
Protein Characteristics:	AA 2-1233
Origin:	Mouse
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 NGTYGQVYK GRHVKTVTAA IKVMDVTEDE EEEITLEINM LKKYSHHRNI ATYYGAFIKK SPPGHDDQLW LVMEFCGAGS ITDLVKNTKG NTLKEDWIAY ISREILRGLA HLHIHHVIHR DIKGQNVLLT ENAEVKLVDF GVSAQLDRTV GRRNTFIGTP YWMAPEVIAC DENPDATYDY RSDLWSCGIT AIEMAEGGPP LCDMHPMRAL FLIPRNPPPR LKSKKWSKKF FSFIEGCLVK NYMQRPSTEQ LLKHPFIRDQ PNERQVRIQL KDHDTRTRKK RGEKDETEYE YSGSEEEEE VPEQEGEPSS IVNVPGESTL RRDFLRLLQQE NKERSEALRR QQLLQEQLR EQEYKRQLL AERQKRIEQ KEQRRRLEE QRREREARRQ QEREQRRREQ EEKRRLEELE RRRKEEEERR RAEKRRVE REQEYIRRQL EEEQRHLEIL QQQLLQEQAM LLHDHRRPHA QQQPPPPQQQ DRSKPSFHAP EPKPHYDPAD RAREVQWSHL ASLKNNVSPV SRSHSFSDPS PKFAHHHLRS QDPCPPSRSE GLSQSSDSKS EVPEPTQKAW SRSDSDEVPP RVPVRTTSRS PVLRRDSPL QGGGQQNSQA GQRNSTSSIE PRLLWERVEK LVPRPGSGSS SGSSNSGSQP GSHPGSQSGS GERFRVRSSS KSEGSPSPRQ ESAAKKPDDK
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KEVFRSLKPA GEVDLTALAK ELRAVEDVRP PHKVTDYSSS SEESGTTDEE EEDVEQEGAD  
DSTSGPEDTR AASSPNLSNG ETESVKTMIV HDDVESEPAM TPSKEGTLIV RQTQSASSTL  
QKHKSSSSFT PFIDPRLLQI SPSSGTTVTS VVGFS CDGLR PEAIRQDPTR KGSVVNVNPT  
NTRPQSDTPE IRKYKRFNS EILCAALWGV NLLVGTESGL MLLDRSGQ GK VYPLISRRRFL  
QQMDVLEGLN VLV TISGKKD KLRVYYLSWL RNKILHNDPE VEKKQGWTTV GDLEGCVHYK  
VVKYERIKFL VIALKSSVEV YAWAPKPYHK FMAFKSFGEL LHKPLLVDLT VEEGQRLKVI  
YGSCAGFHAV DVDSGSVYDI YLP THIQCSI KPHAIILPN TDGMELLVCY EDEGVVYNTY  
GRITKDVLVQ WGEMPTSVAY IRSNQTMGWG EKAIEIRSVE TGHLDGVFMH KRAQRLKFLC  
GRNDKVFFSS VRSGGSSQVY FMTLGRTSLL SW

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

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### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse 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 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.

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### 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 ( <a href="#">MAP4K4 Products</a> )
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 (By similarity). {ECO:0000250, ECO:0000269 PubMed:10669731, ECO:0000269 PubMed:9135144}.
Molecular Weight:	141.4 kDa Including tag.
UniProt:	<a href="#">P97820</a>

## 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 options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
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## 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