

Datasheet for ABIN7554447

## MAP3K8 Protein (AA 1-467) (His tag)



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### Overview

Quantity:	1 mg
Target:	MAP3K8
Protein Characteristics:	AA 1-467
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAP3K8 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Purpose:	Custom-made recombinat MAP3K8 Protein expressed in mammalian cells.
Sequence:	<p>MEYMSTGSDN KEEIDLLIKH LNVSDVIDIM ENLYASEEPA VYEPSLMTMC QDSNQNDERS</p> <p>KSLLLSGQEV PWLSSVRYGT VEDLLAFANH ISNTAKHFGY QRPQESGILL NMVITPQNGR</p> <p>YQIDSDVLLI PWKLTYNIG SDFIPRGAFG KVYLAQDIKT KKRMAACKLIP VDQFKPSDVE</p> <p>IQACFRHENI AELYGAVLWG ETVHLFMEAG EGGSVLEKLE SCGPMREFEI IWVTKHVLKG</p> <p>LDFLHKKVI HHDIKPSNIV FMSTKAVLVD FGLSVQMTED VYFPKDLRGT EIYMSPEVIL</p> <p>CRGHSTKADI YSLGATLIHM QTGTPPWVKR YPRSAYPSYL YIIHKQAPPL EDIADDCSPG</p> <p>MRELIEASLE RNPNHRPRAA DLLKHEALNP PREDQPRCQS LDSALLERKR LLSRKELELP</p> <p>ENIADSSCTG STEESEMLKR QRSLYIDLGA LAGYFNLVRG PPTLEYG <b>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.</b></p>

## Product Details

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### Characteristics:

### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian 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

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### Target:

MAP3K8

### Alternative Name:

MAP3K8 ([MAP3K8 Products](#))

### Background:

Mitogen-activated protein kinase kinase kinase 8 (EC 2.7.11.25) (Cancer Osaka thyroid oncogene) (Proto-oncogene c-Cot) (Serine/threonine-protein kinase cot) (Tumor progression locus 2) (TPL-2),FUNCTION: Required for lipopolysaccharide (LPS)-induced, TLR4-mediated activation of the MAPK/ERK pathway in macrophages, thus being critical for production of the pro-inflammatory cytokine TNF-alpha (TNF) during immune responses. Involved in the regulation of T-helper cell differentiation and IFNG expression in T-cells. Involved in mediating host resistance to bacterial infection through negative regulation of type I interferon (IFN) production. In vitro, activates MAPK/ERK pathway in response to IL1 in an IRAK1-independent manner, leading to up-regulation of IL8 and CCL4. Transduces CD40 and TNFRSF1A signals that activate ERK in B-cells and macrophages, and thus may play a role in the regulation of immunoglobulin production. May also play a role in the transduction of TNF signals that activate JNK and NF-kappa-B in some cell types. In adipocytes, activates MAPK/ERK pathway in an IKBKB-dependent manner in response to IL1B and TNF, but not insulin, leading to

## Target Details

induction of lipolysis. Plays a role in the cell cycle. Isoform 1 shows some transforming activity, although it is much weaker than that of the activated oncogenic variant.  
{ECO:0000269|PubMed:11342626, ECO:0000269|PubMed:12667451,  
ECO:0000269|PubMed:15169888, ECO:0000269|PubMed:16371247,  
ECO:0000269|PubMed:1833717, ECO:0000269|PubMed:19001140,  
ECO:0000269|PubMed:19808894}.

Molecular Weight: 52.9 kDa

UniProt: [P41279](#)

Pathways: [PI3K-Akt Signaling](#), [TCR Signaling](#)

## 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