

Datasheet for ABIN7564540

MKNK2 Protein (AA 1-459) (His tag)



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Overview

Quantity:	1 mg
Target:	MKNK2
Protein Characteristics:	AA 1-459
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MKNK2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Mknk2 Protein expressed in mammalian cells.
Sequence:	<p>MVQKRTAELQ GFHRSFKGQN PFELAFSLDL AQHRDSDFSP QCEARPDMPD SQPIDIPDAK</p> <p>KRGRKKKRCR ATDSFSGRFE DVYQLQEDVL GEGAHARVQT CVNLITNQEY AVKIIKQLG</p> <p>HIRSRVFREV EMLYQCQGHR NVLELIEFFE EEDRFYLVFE KMRGGSILSH IHRRRHFNEL</p> <p>EASVVVDVA SALDFLHNKG IAHRLKPEN ILCEHPNQVS PVKICDFDLG SGIKLNGDCS</p> <p>PISTPELLTP CGSAEYMAPE VVEAFSEEAS IYDKRCDLWS LGVILYILLS GYPFVGHCG</p> <p>SDCGWDRGEA CPACQNMLFE SIQEGKYEFP DKDWSHISFA AKDLISKLLV RDAKQRLSAA</p> <p>QVLQHPWVQG CAPENTLPTP LVLQRNSCAK DLTSFAAEAI AMNRQLAQCE EDAGQDQPVV</p> <p>IRATSRCLQL SPSPQSKLAQ RRQRASLSAT PVVLVGDR</p> <p>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.</p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different

Product Details

isoform, please contact us regarding an individual offer.

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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade:

custom-made

Target Details

Target:

MKNK2

Alternative Name:

Mknk2 ([MKNK2 Products](#))

Background:

MAP kinase-interacting serine/threonine-protein kinase 2 (EC 2.7.11.1) (MAP kinase signal-integrating kinase 2) (MAPK signal-integrating kinase 2) (Mnk2),FUNCTION: Serine/threonine-protein kinase that phosphorylates SFPQ/PSF, HNRNPA1 and EIF4E. May play a role in the response to environmental stress and cytokines. Appears to regulate translation by phosphorylating EIF4E, thus increasing the affinity of this protein for the 7-methylguanosine-containing mRNA cap. Required for mediating PP2A-inhibition-induced EIF4E phosphorylation. Triggers EIF4E shuttling from cytoplasm to nucleus. Enhances the formation of EIF4F complex in pachytene spermatocytes, thus promoting mRNA translation during spermatogenesis. Displays a high basal kinase activity. Acts as a mediator of the suppressive effects of IFNgamma on hematopoiesis. Negative regulator for signals that control generation of arsenic trioxide As(2)O(3)-dependent apoptosis and anti-leukemic responses. Involved in anti-apoptotic signaling in response to serum withdrawal. {ECO:0000269|PubMed:11154262,

Target Details

	ECO:0000269 PubMed:17689282, ECO:0000269 PubMed:17903173, ECO:0000269 PubMed:20574055, ECO:0000269 PubMed:20823271, ECO:0000269 PubMed:20927323, ECO:0000269 PubMed:9155017}.
Molecular Weight:	51.6 kDa
UniProt:	Q8CDB0
Pathways:	MAPK Signaling

Application Details

Application Notes:	We expect the protein to work for functional studies. 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