

Datasheet for ABIN7554610

MAP2K6 Protein (AA 1-334) (His tag)



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Overview

Quantity:	1 mg
Target:	MAP2K6
Protein Characteristics:	AA 1-334
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAP2K6 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat MAP2K6 Protein expressed in mammalian cells.
Sequence:	<p>MSQSKGKKRN PGLKIPKEAF EQPQTSSTPP RDLDSKACIS IGNQNFVKA DDLEPIMELG RGAYGVVEKM RHPVSGQIMA VKRIRATVNS QEQKRLMDL DISMRTVDCP FTVTFYGALF REGDVWICME LMDTSLDKFY KQVIDKGQTI PEDILGKIAV SIVKALEHLH SKLSVIHRDV KPSNVLINAL GQVKMCDFGI SGYLVDSVAK TIDAGCKPYM APERINPELN QKGYSVKSDI WSLGITMIEL AILRFPYDSW GTPFQQLKQV VEEPSQLPA DKFSAEFVDF TSQCLKKNSK ERPTYPELMQ HPFFTLHESK GTDVASFVKL ILGD 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>
Characteristics:	Key Benefits:

Product Details

- 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
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Grade:	custom-made
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Target Details

Target:	MAP2K6
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Alternative Name:	MAP2K6 (MAP2K6 Products)
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Background:	Dual specificity mitogen-activated protein kinase kinase 6 (MAP kinase kinase 6) (MAPKK 6) (EC 2.7.12.2) (MAPK/ERK kinase 6) (MEK 6) (Stress-activated protein kinase kinase 3) (SAPK kinase 3) (SAPKK-3) (SAPKK3),FUNCTION: Dual specificity protein kinase which acts as an essential component of the MAP kinase signal transduction pathway. With MAP3K3/MKK3, catalyzes the concomitant phosphorylation of a threonine and a tyrosine residue in the MAP kinases p38 MAPK11, MAPK12, MAPK13 and MAPK14 and plays an important role in the regulation of cellular responses to cytokines and all kinds of stresses. Especially, MAP2K3/MKK3 and MAP2K6/MKK6 are both essential for the activation of MAPK11 and MAPK13 induced by environmental stress, whereas MAP2K6/MKK6 is the major MAPK11 activator in response to TNF. MAP2K6/MKK6 also phosphorylates and activates PAK6. The p38 MAP kinase signal transduction pathway leads to direct activation of transcription factors. Nuclear targets of p38 MAP kinase include the transcription factors ATF2 and ELK1. Within the p38 MAPK signal transduction pathway, MAP3K6/MKK6 mediates phosphorylation of STAT4 through MAPK14 activation, and is therefore required for STAT4 activation and STAT4-
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Target Details

regulated gene expression in response to IL-12 stimulation. The pathway is also crucial for IL-6-induced SOCS3 expression and down-regulation of IL-6-mediated gene induction, and for IFNG-dependent gene transcription. Has a role in osteoclast differentiation through NF-kappa-B transactivation by TNFSF11, and in endochondral ossification and since SOX9 is another likely downstream target of the p38 MAPK pathway. MAP2K6/MKK6 mediates apoptotic cell death in thymocytes. Acts also as a regulator for melanocytes dendricity, through the modulation of Rho family GTPases. {ECO:0000269|PubMed:10961885, ECO:0000269|PubMed:11727828, ECO:0000269|PubMed:15550393, ECO:0000269|PubMed:20869211, ECO:0000269|PubMed:8622669, ECO:0000269|PubMed:8626699, ECO:0000269|PubMed:8663074, ECO:0000269|PubMed:9218798}.

Molecular Weight:	37.5 kDa
UniProt:	P52564
Pathways:	MAPK Signaling , TLR Signaling , Activation of Innate immune Response , Regulation of Muscle Cell Differentiation , Toll-Like Receptors Cascades

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