



Full-Length

MAP2K3 (Human) Recombinant Protein

Catalog # P5584 Size 5 ug

Applications



Result of activity analysis

Result of activity analysis

Specification	
Product Description	Human MAP2K3 (NP_659731.1, 1 a.a 347 a.a.) full-length recombinant protein with GST tag expre ssed in baculovirus infected Sf21 cells.
Host	insect
Theoretical MW (kDa)	66
Form	Liquid
Preparation Method	Baculovirus infected insect cell (Sf21) expression system
Purification	Glutathione sepharose chromatography
Purity	84 % by SDS-PAGE/CBB staining

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Product Information

Activity	The activity was determined by ELISA. The enzyme was incubated with GST-fused substrate protein, and after stopping kinase reaction by EDTA, the reaction solution was transferred into glutathione-co ated plate. Phosphorylation was detected by anti-phospho antibody and HRP-labeled anti-rabbit IgG (or HRP-labeled anti-mouse IgG). Substrate: p38a (9-352) [inactive mutant]. ATP: 100 uM.
Quality Control Testing	Loading 1 ug protein in SDS-PAGE
Storage Buffer	In 50 mM Tris-HCI, 150 mM NaCI, pH 7.5 (0.1% CHAPS, 1 mM DTT, 10% glycerol)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of activity analysis Result of activity analysis

Applications

- Functional Study
- SDS-PAGE

Gene Info — MAP2K3	
Entrez GenelD	<u>5606</u>
Protein Accession#	<u>NP_659731.1</u>
Gene Name	MAP2K3
Gene Alias	MAPKK3, MEK3, MKK3, PRKMK3
Gene Description	mitogen-activated protein kinase kinase 3
Omim ID	<u>602315</u>
Gene Ontology	<u>Hyperlink</u>
Gene Summary	The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kina se kinase family. This kinase is activated by mitogenic and environmental stress, and participates in the MAP kinase-mediated signaling cascade. It phosphorylates and thus activates MAPK14/p3 8-MAPK. This kinase can be activated by insulin, and is necessary for the expression of glucose t ransporter. Expression of RAS oncogene is found to result in the accumulation of the active form of this kinase, which thus leads to the constitutive activation of MAPK14, and confers oncogenic tr ansformation of primary cells. The inhibition of this kinase is involved in the pathogenesis of Yersi na pseudotuberculosis. Multiple alternatively spliced transcript variants that encode distinct isofor ms have been reported for this gene. [provided by RefSeq



Product Information

Other Designations

MAP kinase kinase 3|MAPK/ERK kinase 3|OTTHUMP00000166044|dual specificity mitogen activated protein kinase kinase 3

Pathway

- <u>Amyotrophic lateral sclerosis (ALS)</u>
- Fc epsilon RI signaling pathway
- GnRH signaling pathway
- <u>MAPK signaling pathway</u>
- Toll-like receptor signaling pathway