

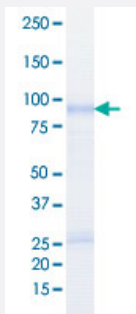
Bioactive

MAP3K12 (Human) Recombinant Protein

Catalog # P5535

Size 5 ug

Applications



Result of activity analysis

Result of activity analysis

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Specification

Product Description	Human MAP3K12 (NP_006292.3, 1 a.a. - 520 a.a.) partial recombinant protein with GST tag expressed in baculovirus infected Sf21 cells.
Host	insect
Theoretical MW (kDa)	86
Form	Liquid
Preparation Method	Baculovirus infected insect cell (Sf21) expression system
Purification	Glutathione sepharose chromatography
Purity	55 % by SDS-PAGE/CBB staining

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-coated plate. Phosphorylation was detected by anti-phospho antibody and HRP-labeled anti-rabbit IgG (or HRP-labeled anti-mouse IgG). Substrate: MAP2K7 [inactive mutant]. ATP: 100 uM.
Quality Control Testing	Loading 1 ug protein in SDS-PAGE
Storage Buffer	In 50 mM Tris-HCl, 150 mM NaCl, 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 — MAP3K12

Entrez GeneID	7786
Protein Accession#	NP_006292.3
Gene Name	MAP3K12
Gene Alias	DLK, MUK, ZPK, ZPKP1
Gene Description	mitogen-activated protein kinase kinase kinase 12
Omim ID	600447
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of serine/threonine protein kinase family. This kinase contains a leucine-zipper domain, and is predominately expressed in neuronal cells. The phosphorylation state of this kinase in synaptic terminals was shown to be regulated by membrane depolarization via calcineurin. This kinase forms heterodimers with leucine zipper containing transcription factors, such as cAMP responsive element binding protein (CREB) and MYC, and thus may play a regulatory role in PKA or retinoic acid induced neuronal differentiation. [provided by RefSeq]
Other Designations	dual leucine zipper kinase DLK leucine zipper protein kinase protein kinase MUK zipper protein kinase

Pathway

- [MAPK signaling pathway](#)

Disease

- [Genetic Predisposition to Disease](#)
- [Mouth Neoplasms](#)
- [Precancerous Conditions](#)
- [Thyroid Neoplasms](#)