

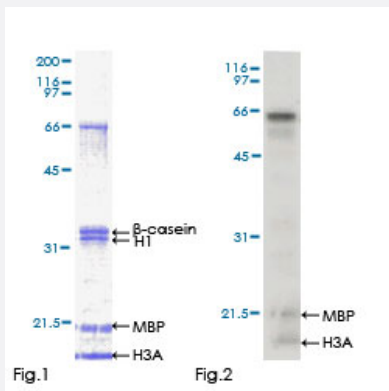
Full-Length

# MAPK10 (Human) Recombinant Protein (P01)

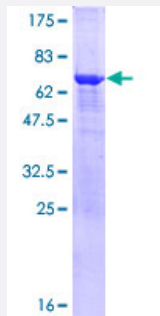
Catalog # H00005602-P01

Size 25 ug, 10 ug

## Applications



## Kinase Assay



## Specification

### Product Description

Human MAPK10 full-length ORF ( AAH65516.1, 1 a.a. - 319 a.a.) recombinant protein with GST-tag at N-terminal.

### Sequence

MELMDANLCQVIQMELDHERMSYLLYQMLCGIKHLHSAGIIHRDLKPSNIVKSDCTLKILDFGLAR  
TAGTSFMMTPYVVTRYRAPEVILGMGYKENVDWSVGCIMGEMVRHKILFPGRDYIDQWNKVIEQ  
LGTPCPEFMKKLQPTVRNYVENRPKYAGLTFPKLFPDSLFPADSEHNKLKASQARDLLSKMLVID  
PAKRISVDDALQHPYINWYDPAEVEAPPPQYDKQLDEREHTIEEWKELYKEVMNSEEKTKNGV  
VKGQPSPSGA AVNSSESLPPSSSVNDISSMSTDQTLASD TDSSLEASAGPLGCCR

### Host

Wheat Germ (in vitro)

Theoretical MW (kDa)	60.83
Preparation Method	<a href="#">in vitro wheat germ expression system</a>
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

## Applications

- Kinase Assay  
[Protocol Download](#)
- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — MAPK10

Entrez GeneID	<a href="#">5602</a>
GeneBank Accession#	<a href="#">BC065516</a>
Protein Accession#	<a href="#">AAH65516.1</a>
Gene Name	MAPK10
Gene Alias	FLJ12099, FLJ33785, JNK3, JNK3A, MGC50974, PRKM10, p493F12, p54bSAPK
Gene Description	mitogen-activated protein kinase 10
Omim ID	<a href="#">602897</a> <a href="#">606369</a>

## Gene Ontology

[Hyperlink](#)

## Gene Summary

The protein encoded by this gene is a member of the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. This protein is a neuronal-specific form of c-Jun N-terminal kinases (JNKs). Through its phosphorylation and nuclear localization, this kinase plays regulatory roles in the signaling pathways during neuronal apoptosis. Beta-arrestin 2, a receptor-regulated MAP kinase scaffold protein, is found to interact with, and stimulate the phosphorylation of this kinase by MAP kinase kinase 4 (MKK4). Cyclin-dependent kinase 5 can phosphorylate, and inhibit the activity of this kinase, which may be important in preventing neuronal apoptosis. Four alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq]

## Other Designations

JNK3 alpha protein kinase|MAP kinase|OTTHUMP00000161180|OTTHUMP00000161182|OTTHUMP00000161183|c-Jun N-terminal kinase 3|c-Jun kinase 3|stress activated protein kinase JNK3|stress activated protein kinase beta

## Publication Reference

- [JNK1 Protects against Glucolipotoxicity-Mediated Beta-Cell Apoptosis.](#)

Prause M, Christensen DP, Billestrup N, Mandrup-Poulsen T.

PLoS One 2014 Jan; 9(1):e87067.

Application: WB, Human, JNK antibodies

## Pathway

- [Adipocytokine signaling pathway](#)
- [Colorectal cancer](#)
- [Epithelial cell signaling in Helicobacter pylori infection](#)
- [ErbB signaling pathway](#)
- [Fc epsilon RI signaling pathway](#)
- [Focal adhesion](#)
- [GnRH signaling pathway](#)
- [Insulin signaling pathway](#)
- [MAPK signaling pathway](#)
- [Neurotrophin signaling pathway](#)

- [Pancreatic cancer](#)
- [Pathways in cancer](#)
- [Toll-like receptor signaling pathway](#)
- [Type II diabetes mellitus](#)
- [Wnt signaling pathway](#)

## Disease

- [HIV Infections](#)