

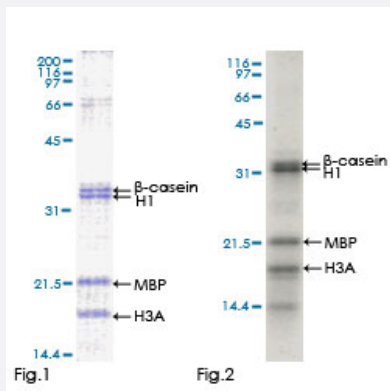
Full-Length

MAPK9 (Human) Recombinant Protein (P01)

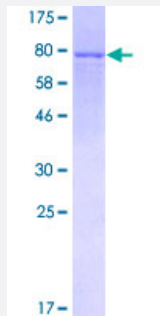
Catalog # H00005601-P01

Size 25 ug, 10 ug

Applications



Kinase Assay



Specification

Product Description

Human MAPK9 full-length ORF (AAH32539, 1 a.a. - 424 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MSDSKCDSQFYSVQVADSTFTVLKRYQQLKPIGSGAQQGVCAAFDTVGINVAVKKLSRPFQNT
HAKRAYRELVLLKCVNHKNISLLNVFTPQKTLEEFQDVYLMELMDANLCQVIHMELDHERMSYL
LYQMLCGIKHLHSAGIIHRDLKPSNIVKSDCTLKILDFGLARTACTNFMMPYVVTRYRAPEVILG
MGYKENVDIWSVGCIMGELVKGCVIFQGTDHIDQWNKVIEQLGTPSAEFMKKLQPTVRNYVENRP
KYPGKFEELFPDWIFPSESERDKIKTSQARDLLSKMLVIDPDKRISVDEALRHPYITVWYDPAAEAE
APPPQYDAQLEEREHAIEWKELIYKEVMDWEERSKNGVVKDQPSDAAVSSNATPSQSSSINDI
SSMSTEQTLASDSTDSSLDASTGPLEGCR

Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	72.27
Preparation Method	in vitro wheat germ expression system
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 — MAPK9

Entrez GeneID	5601
GeneBank Accession#	BC032539
Protein Accession#	AAH32539
Gene Name	MAPK9
Gene Alias	JNK-55, JNK2, JNK2A, JNK2ALPHA, JNK2B, JNK2BETA, PRKM9, SAPK, p54a, p54aSAPK
Gene Description	mitogen-activated protein kinase 9

Omim ID [602896](#)

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 kinase targets specific transcription factors, and thus mediates immediate-early gene expression in response to various cell stimuli. It is most closely related to MAPK8, both of which are involved in UV radiation induced apoptosis, thought to be related to the cytochrome c-mediated cell death pathway. This gene and MAPK8 are also known as c-Jun N-terminal kinases. This kinase blocks the ubiquitination of tumor suppressor p53, and thus it increases the stability of p53 in nonstressed cells. Studies of this gene's mouse counterpart suggest a key role in T-cell differentiation. Several alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq]

Other Designations

Jun kinase|MAP kinase 9|c-Jun N-terminal kinase 2|c-Jun kinase 2|mitogen-activated protein kinase 9 isoform JNK2 alpha2|stress-activated protein kinase JNK2

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](#)
- [T cell receptor signaling pathway](#)
- [Toll-like receptor signaling pathway](#)
- [Type II diabetes mellitus](#)
- [Wnt signaling pathway](#)

Disease

- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [HIV Infections](#)
- [Tobacco Use Disorder](#)