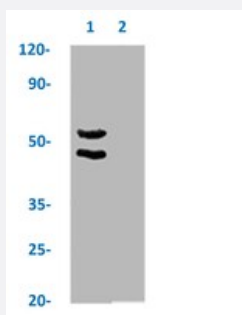


RecomAb™

MAPK8/MAPK9/MAPK10 (phospho T183/T183/T221) recombinant monoclonal antibody, clone 1A9

Catalog # RAB04293 Size 100 uL

Applications



Western Blot

Western blot analysis of Lane 1:293 whole cell lysate (treated with EGF 100ng/ml/20mins), Lane 2: 293 whole cell lysate (not treated) with MAPK8/MAPK9/MAPK10 (phospho T183/T183/T221) recombinant monoclonal antibody, clone 1A9 (Cat # RAB04293).

Immunocytochemistry

Immunocytochemical staining of HeLa cells with MAPK8/MAPK9/MAPK10 (phospho T183/T183/T221) recombinant monoclonal antibody, clone 1A9 (Cat # RAB04293) (diluted at 1:75).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human MAPK8/MAPK9/MAPK10.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic phosphopeptide corresponding to residues surrounding T183/T183/T221 of human MAPK8/MAPK9/MAPK10.
Theoretical MW (kDa)	Calculated MW: 46,54
Reactivity	Human

Form	Liquid
Purification	Affinity chromatography
Isotype	IgG
Recommend Usage	ELISA Immunocytochemistry Immunohistochemistry(1:50-1:200) Western Blot(1:500-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
Storage Instruction	Store at -20 °C or -80 °C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot

Western blot analysis of Lane 1:293 whole cell lysate (treated with EGF 100ng/ml/20mins), Lane 2: 293 whole cell lysate (not treated) with MAPK8/MAPK9/MAPK10 (phospho T183/T183/T221) recombinant monoclonal antibody, clone 1A9 (Cat # RAB04293).

- Immunohistochemistry

- Immunocytochemistry

Immunocytochemical staining of HeLa cells with MAPK8/MAPK9/MAPK10 (phospho T183/T183/T221) recombinant monoclonal antibody, clone 1A9 (Cat # RAB04293) (diluted at 1:75).

- Enzyme-linked Immunoabsorbent Assay

Gene Info — MAPK8

Entrez GeneID	5599
Protein Accession#	P45983;P45984;P53779
Gene Name	MAPK8
Gene Alias	JNK, JNK1, JNK1A2, JNK21B1/2, PRKM8, SAPK1

Gene Description	mitogen-activated protein kinase 8
Omim ID	601158
Gene Ontology	Hyperlink
Gene Summary	<p>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 is activated by various cell stimuli, and targets specific transcription factors, and thus mediates immediate-early gene expression in response to cell stimuli. The activation of this kinase by tumor-necrosis factor alpha (TNF-alpha) is found to be required for TNF-alpha induced apoptosis. This kinase is also involved in UV radiation induced apoptosis, which is thought to be related to cytochrome c-mediated cell death pathway. Studies of the mouse counterpart of this gene suggested that this kinase play a key role in T cell proliferation, apoptosis and differentiation. Four alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq]</p>
Other Designations	JNK1 alpha protein kinase JNK1 beta protein kinase JUN N-terminal kinase OTTHUMP00000019552 OTTHUMP00000019555 OTTHUMP00000019556 OTTHUMP00000019558 c-Jun N-terminal kinase 1 mitogen-activated protein kinase 8 isoform JNK1 alpha1 mitogen-activated protein

Gene Info — MAPK9

Entrez GeneID	5601
Protein Accession#	P45983 ; P45984 ; P53779
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	<p>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]</p>

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

Gene Info — MAPK10

Entrez GeneID

[5602](#)

Protein Accession#

[P45983;P45984;P53779](#)

Gene Name

MAPK10

Gene Alias

FLJ12099, FLJ33785, JNK3, JNK3A, MGC50974, PRKM10, p493F12, p54bSAPK

Gene Description

mitogen-activated protein kinase 10

Omim ID

[602897](#) [606369](#)

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

Pathway

- [Adipocytokine signaling pathway](#)
- [Adipocytokine signaling pathway](#)
- [Adipocytokine signaling pathway](#)
- [Colorectal cancer](#)
- [Colorectal cancer](#)
- [Colorectal cancer](#)

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

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

Disease

- [Breast cancer](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Breast Neoplasms](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Genetic Predisposition to Disease](#)
- [HIV Infections](#)

- [HIV Infections](#)
- [HIV Infections](#)
- [Tobacco Use Disorder](#)