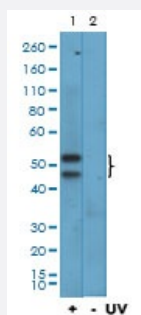


RecomAb™

# MAPK8/MAPK9/MAPK10 (phospho T183/Y185) monoclonal antibody, clone RM464

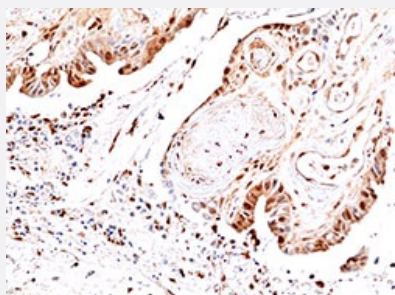
Catalog # MAB23246      Size 100  $\mu$ L

## Applications



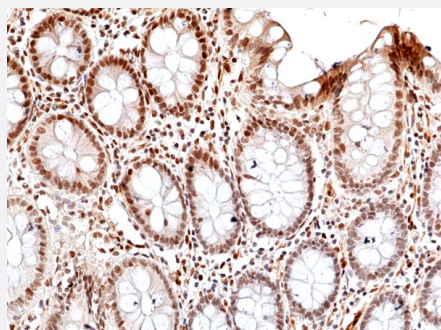
### Western Blot (Cell lysate)

Western blot analysis of HeLa cell lysates with MAPK8/MAPK9/MAPK10 (phospho T183/Y185) monoclonal antibody, clone RM464 (Cat # MAB23246) at a 1:200 dilution.



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human colon with MAPK8/MAPK9/MAPK10 (phospho T183/Y185) monoclonal antibody, clone RM464 (Cat # MAB23246) at a 1:100 dilution.



### Immunohistochemistry

Immunohistochemical staining of formalin fixed and paraffin embedded human colon tissue section using MAPK8/MAPK9/MAPK10 (phospho T183/Y185) monoclonal antibody, clone RM464 (Cat# MAB23246) at a 1:100 dilution.

## Specification

|                            |                                                                                                                                                                                                                                                                                              |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b> | Rabbit recombinant monoclonal antibody raised against human MAPK8/MAPK9/MAPK10.                                                                                                                                                                                                              |
| <b>Antibody Species</b>    | Rabbit                                                                                                                                                                                                                                                                                       |
| <b>Immunogen</b>           | Original antibody is raised against a synthetic phosphopeptide corresponding to residues surrounding Thr183/Tyr185 of human MAPK8/MAPK9/MAPK10.                                                                                                                                              |
| <b>Reactivity</b>          | Human                                                                                                                                                                                                                                                                                        |
| <b>Specificity</b>         | This antibody reacts to human MAPK8/MAPK9/MAPK10 only when phosphorylated at Thr183 and Tyr185. There is no cross-reactivity to JNK that is not phosphorylated. This antibody may also react to mouse or rat Phospho- MAPK8/MAPK9/MAPK10 (Thr183/Tyr185) as predicted by immunogen homology. |
| <b>Form</b>                | Liquid                                                                                                                                                                                                                                                                                       |
| <b>Purification</b>        | Protein A purification                                                                                                                                                                                                                                                                       |
| <b>Isotype</b>             | IgG                                                                                                                                                                                                                                                                                          |
| <b>Recommend Usage</b>     | Immunohistochemistry (1:100-1:200)<br>Western Blot (1:200-1:2000)<br>The optimal working dilution should be determined by the end user.                                                                                                                                                      |
| <b>Storage Buffer</b>      | In PBS (50% glycerol, 1% BSA, 0.09% sodium azide)                                                                                                                                                                                                                                            |
| <b>Storage Instruction</b> | Store at -20°C.<br>Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                           |
| <b>Note</b>                | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.                                                                                                                                                                       |

## Applications

- Western Blot (Cell lysate)

Western blot analysis of HeLa cell lysates with MAPK8/MAPK9/MAPK10 (phospho T183/Y185) monoclonal antibody, clone RM464 (Cat # MAB23246) at a 1:200 dilution.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human colon with MAPK8/MAPK9/MAPK10 (phospho T183/Y185) monoclonal antibody, clone RM464 (Cat # MAB23246) at a 1:100 dilution.

- Immunohistochemistry

Immunohistochemical staining of formalin fixed and paraffin embedded human colon tissue section using MAPK8/MAPK9/MAPK10 (phospho T183/Y185) monoclonal antibody, clone RM464 (Cat# MAB23246) at a 1:100 dilution.

## Gene Info — MAPK8

**Entrez GeneID** [5599](#)**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**

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]

**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](#)**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

## Gene Info — MAPK10

### Entrez GeneID

[5602](#)

### 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](#)