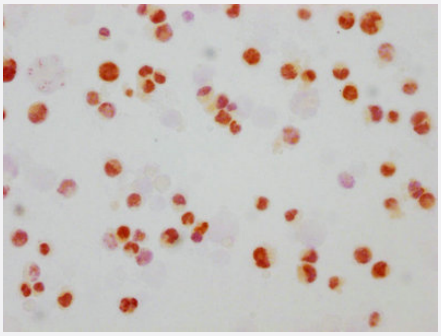
RecomAb™ Sm Size

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

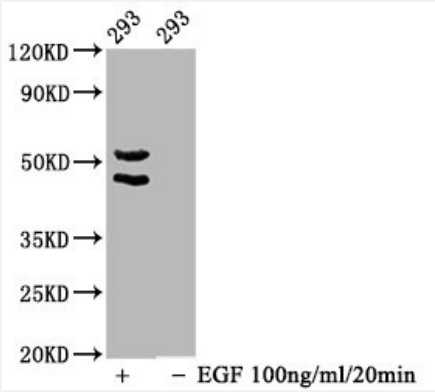
Catalog # RAB08148 Size 50 uL

## Applications



### Immunocytochemistry

Immunocytochemical staining of HeLa cells with MAPK8/MAPK9/MAPK10 (phospho T183/T183/T221) recombinant monoclonal antibody (diluated at 1:75).




### 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.

## 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 |

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|---|---|
| **Reactivity** | Human |
| **Form** | Liquid |
| **Preparation Method** | Mammalian cell (HEK293) expression system |
| **Purification** | Affinity chromatography |
| **Isotype** | IgG |
| **Recommend Usage** | ELISA<br>Immunocytochemistry<br>Immunohistochemistry(1:50-1:200)<br>Western Blot(1:500-1:5000)<br>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.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Immunohistochemistry
- Immunocytochemistry

  Immunocytochemical staining of HeLa cells with MAPK8/MAPK9/MAPK10 (phospho T183/T183/T221) recombinant monoclonal antibody (diluated at 1:75).

- Enzyme-linked Immunoabsorbent Assay
- 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.

## Gene Info — MAPK8

| | |
|---|---|
| **Entrez GeneID** | 5599 |
| **Protein Accession#** | P45983;P45984;P53779 |

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| | |
|---|---|
| **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 pro cesses such as proliferation, differentiation, transcription regulation and development. This kinase is activated by various cell stimuli, and targets specific transcription factors, and thus mediates im mediate-early gene expression in response to cell stimuli. The activation of this kinase by tumor-n ecrosis factor alpha (TNF-alpha) is found to be required for TNF-alpha induced apoptosis. This ki nase is also involved in UV radiation induced apoptosis, which is thought to be related to cytochro m c-mediated cell death pathway. Studies of the mouse counterpart of this gene suggested that th is kinase play a key role in T cell proliferation, apoptosis and differentiation. Four alternatively spli ced 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\|OTTHUMP0000001 9552\|OTTHUMP00000019555\|OTTHUMP00000019556\|OTTHUMP00000019558\|c-Jun N-termi nal 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 |

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|---|---|
| **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 |
| **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 kianse 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

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- 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

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- 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

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- 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

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