

# MAPK10 monoclonal antibody, clone 8A5D11

Catalog # MAB5534

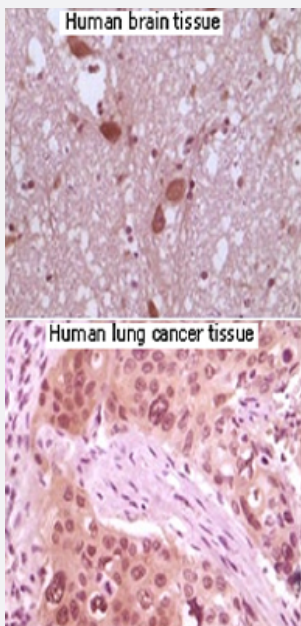
Size 100 ug

## Applications



### Western Blot (Recombinant protein)

Western blot analysis using MAPK10 monoclonal antibody, clone 8A5D11 (Cat # MAB5534) against recombinant MAPK10.



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

Immunohistochemical analysis of paraffin-embedded human brain tissue and lung carcinoma tissue, showing nuclear/cytoplasmic localization using MAPK10 monoclonal antibody, clone 8A5D11 (Cat # MAB5534) with DAB staining.

## Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant MAPK10.
Immunogen	Recombinant protein corresponding to human MAPK10.
Host	Mouse

Reactivity	Human
Form	Liquid
Isotype	IgG1
Recommend Usage	Western Blot (1:500-1:1000) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:500-1:1000) ELISA (1:10000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (50% glycerol, 0.01% sodium azide)
Storage Instruction	Store at -20°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.

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- Enzyme-linked Immunoabsorbent Assay

## Gene Info — MAPK10

Entrez GeneID	<a href="#">5602</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	<a href="#">Hyperlink</a>

## 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

- [Role of mitogen- and stress-activated kinases in ischemic injury.](#)

Irving EA, Bamford M.

Journal of Cerebral Blood Flow and Metabolism 2002 Jun; 22(6):631.

Application: IHC, WB, Rat, Rat brains

- [Mitogen-activated protein kinase kinase 4 \(MKK4\).](#)

Cuenda A.

The International Journal of Biochemistry & Cell Biology 2000 Jun; 32(6):581.

Application: WB, Human, Mammalian cells

- [The Jnk1 and Jnk2 protein kinases are required for regional specific apoptosis during early brain development.](#)

Kuan CY, Yang DD, Samanta Roy DR, Davis RJ, Rakic P, Flavell RA.

Neuron 1999 Apr; 22(4):667.

## 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](#)