

# MAPK10 monoclonal antibody, clone HGC-13

Catalog # MAB20412 Size 100 uL

# Applications



#### Western Blot (Cell lysate)

Western Blot analysis of HeLa cell lysate with MAPK10 monoclonal antibody, clone HGC-13 (Cat # MAB20412).

Specification	
Product Description	Rabbit monoclonal antibody raised against synthetic peptide of human MAPK10.
Immunogen	A synthetic peptide corresponding to human MAPK10.
Host	Rabbit
Theoretical MW (kDa)	52.585
Reactivity	Human
Form	Liquid
Purification	Affinity purification
lsotype	lgG
Recommend Usage	Flow Cytometry (1:500) Immunocytochemistry (1:50-1:200) Immunofluorescence (1:50-1:200) Western Blot (1:1000-1:2000) 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).

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# **Product Information**

Storage Instruction

Store at -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and st ored frozen at -20°C for a longer time. 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

• Western Blot (Cell lysate)

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- Immunocytochemistry
- Immunofluorescence
- Flow Cytometry

Gene Info — MAPK10	
Entrez GenelD	5602
Protein Accession#	<u>P53779</u>
Gene Name	MAPK10
Gene Alias	FLJ12099, FLJ33785, JNK3, JNK3A, MGC50974, PRKM10, p493F12, p54bSAPK
Gene Description	mitogen-activated protein kinase 10
Omim ID	<u>602897</u> <u>606369</u>
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 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 a poptosis. Beta-arrestin 2, a receptor-regulated MAP kinase scaffold protein, is found to interact w ith, 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 isof orms have been reported. [provided by RefSeq



### **Product Information**

#### **Other Designations**

JNK3 alpha protein kinase|MAP kinase|OTTHUMP00000161180|OTTHUMP00000161182|OTT HUMP00000161183|c-Jun N-terminal kinase 3|c-Jun kinase 3|stress activated protein kinase JN K3|stress activated protein kinase beta

#### Pathway

- Adipocytokine signaling pathway
- Colorectal cancer
- Epithelial cell signaling in Helicobacter pylori infection
- ErbB signaling pathway
- <u>Fc epsilon RI signaling pathway</u>
- Focal adhesion
- GnRH signaling pathway
- Insulin signaling pathway
- <u>MAPK signaling pathway</u>
- <u>Neurotrophin signaling pathway</u>
- Pancreatic cancer
- Pathways in cancer
- Toll-like receptor signaling pathway
- Type II diabetes mellitus
- Wnt signaling pathway

#### Disease

HIV Infections