

Product datasheet for **AM06230SU-N**

JNK3 (MAPK10) Mouse Monoclonal Antibody [Clone ID: 10E4A4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	10E4A4
Applications:	IF, WB
Recommended Dilution:	ELISA: 1/10000. Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000.
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of human MAPK10 (aa28-233) expressed in E. Coli.
Specificity:	Recognizes MAPK10
Formulation:	State: Ascites State: Ascitic fluid containing 0.03% Sodium Azide.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	mitogen-activated protein kinase 10
Database Link:	Entrez Gene 5602 Human P53779



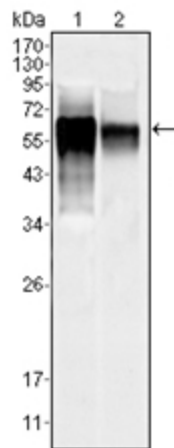
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Background:

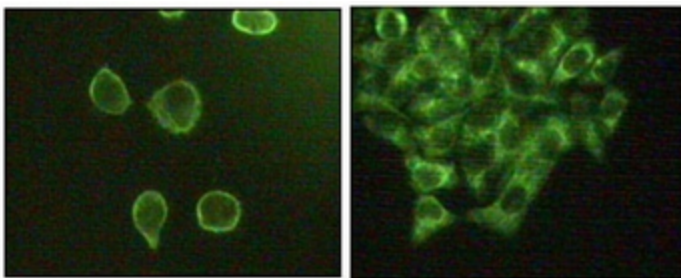
Mitogen-activated protein kinase 10, also known as JNK3, JNK3A, PRKM10, p54bSAPK. Entrez Protein NP_002744. It is a member of the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, 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.

Synonyms:

Stress-activated protein kinase JNK3, c-Jun N-terminal kinase 3, JNK3A, PRKM10, MAP kinase p49 3F12

Product images:

Western blot analysis using MAPK10 antibody Cat.-No AM06230SU-N against NIH/3T3 (Lane 1) and SKN-SH (Lane 2) cell lysate.



Immunofluorescence staining of methanol-fixed A431 (left) and HeLa (right) cells showing cytoplasmic and membrane localization.