MAPK10 Mouse Monoclonal Antibody

E10-20207

Background: MAPK10. 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 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.

Catalog Number: E10-20207

Amount: 100µg/100µl

Clone Number: 10E4A4

Species: Mouse IgG1

MW: 53kDa

Aliases: JNK3; JNK3A; PRKM10; p54bSAPK

Entrez Gene: 5602

Immunogen: Purified recombinant fragment of human MAPK10 (aa28-233) expressed in E. Coli.

Storage: Store at 4 °C for 1 month. For long term storage, store at -20 °C.

Formulation: Ascitic fluid containing 0.03% sodium azide.

Species Reactivities: Human; Mouse

Tested Applications: WB, IF,ELISA. Not yet tested in other applications. Determining optimal working dilutions by titration test.

Application notes: WB.1/500 - 1/2000.IF.1/200 - 1/1000. ELISA. Propose dilution 1/10000.

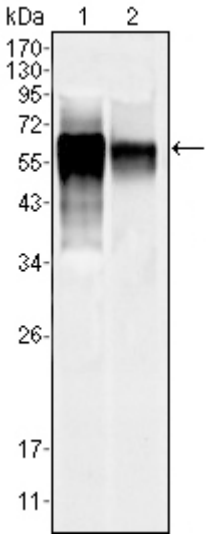

Figure 1. Western blot analysis using MAPK10 mouse mAb against NIH/3T3 (1) and SKN-SH (2) cell lysate.

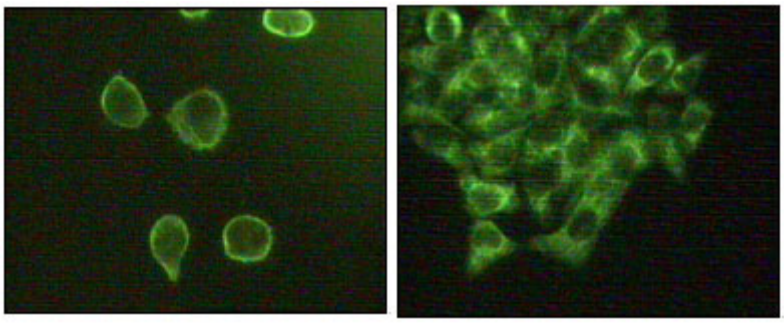

Figure 2. Immunofluorescence staining of methanol-fixed A431 (left) and Hela (right) cells showing cytoplasmic and membrane localization.

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