

Datasheet for ABIN1724701
anti-MAPK10 antibody (AA 28-233)[Go to Product page](#)

2 Images

2 Publications

Overview

Quantity:	100 µL
Target:	MAPK10
Binding Specificity:	AA 28-233
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This MAPK10 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunocytochemistry (ICC)

Product Details

Immunogen:	Purified recombinant fragment of human MAPK10 (aa28-233) expressed in E. coli.
Clone:	10E4A4
Isotype:	IgG1
Purification:	purified

Target Details

Target:	MAPK10
Alternative Name:	MAPK10 (MAPK10 Products)
Background:	Description: 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

Target Details

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.

Aliases: JNK3, JNK3A, PRKM10, p54bSAPK

Molecular Weight: 53 kDa

Gene ID: 5602

NCBI Accession: [NP_002744](#)

HGNC: 5602

Pathways: [MAPK Signaling](#), [WNT Signaling](#), [TLR Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [Activation of Innate immune Response](#), [Hepatitis C](#), [Toll-Like Receptors Cascades](#)

Application Details

Application Notes: ELISA: 1:10000, WB: 1:500 - 1:2000, ICC: 1:200 - 1:1000

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Ascitic fluid containing 0.03 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C/-20 °C

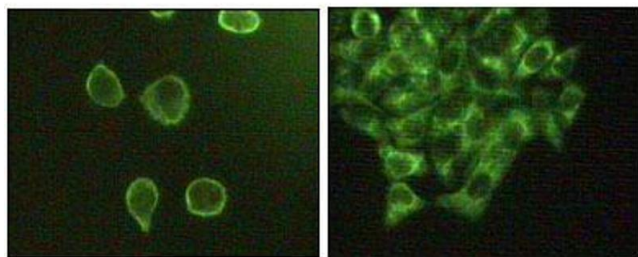
Storage Comment: 4°C, -20°C for long term storage

Publications

Product cited in: Zuhlke, Johnson, Okoth, Stoffel, Robbins, Tembe, Salinas, Zheng, Xu, Carpten, Lange, Isaacs, Cooney: "Identification of a novel NBN truncating mutation in a family with hereditary prostate cancer." in: **Familial cancer**, Vol. 11, Issue 4, pp. 595-600, (2012) ([PubMed](#)).

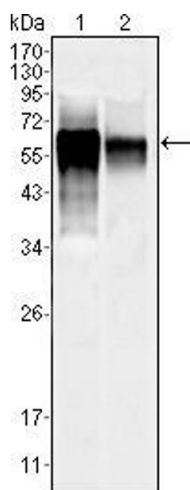
Zheng, Zhang, Jiang, You, Liu, Lu, Zhou: "Functional NBS1 polymorphism is associated with occurrence and advanced disease status of nasopharyngeal carcinoma." in: **Molecular carcinogenesis**, Vol. 50, Issue 9, pp. 689-96, (2011) ([PubMed](#)).

Images



Immunofluorescence

Image 1. Immunofluorescence staining of methanol-fixed A431 (left) and Hela (right) cells showing cytoplasmic and membrane localization.



Western Blotting

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