

Datasheet for ABIN7160009
anti-JNK antibody (AA 5-300)



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4 Images

Overview

Quantity:	100 µg
Target:	JNK (MAPK8)
Binding Specificity:	AA 5-300
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This JNK antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant Human Mitogen-activated protein kinase 8 protein (5-300AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	JNK (MAPK8)
Alternative Name:	MAPK8 (MAPK8 Products)
Background:	Background: Serine/threonine-protein kinase involved in various processes such as cell proliferation, differentiation, migration, transformation and programmed cell death. Extracellular

stimuli such as proinflammatory cytokines or physical stress stimulate the stress-activated protein kinase/c-Jun N-terminal kinase (SAP/JNK) signaling pathway. In this cascade, two dual specificity kinases MAP2K4/MKK4 and MAP2K7/MKK7 phosphorylate and activate MAPK8/JNK1. In turn, MAPK8/JNK1 phosphorylates a number of transcription factors, primarily components of AP-1 such as JUN, JDP2 and ATF2 and thus regulates AP-1 transcriptional activity. Phosphorylates the replication licensing factor CDT1, inhibiting the interaction between CDT1 and the histone H4 acetylase HBO1 to replication origins. Loss of this interaction abrogates the acetylation required for replication initiation. Promotes stressed cell apoptosis by phosphorylating key regulatory factors including p53/TP53 and Yes-associated protein YAP1. In T-cells, MAPK8 and MAPK9 are required for polarized differentiation of T-helper cells into Th1 cells. Contributes to the survival of erythroid cells by phosphorylating the antagonist of cell death BAD upon EPO stimulation. Mediates starvation-induced BCL2 phosphorylation, BCL2 dissociation from BECN1, and thus activation of autophagy. Phosphorylates STMN2 and hence regulates microtubule dynamics, controlling neurite elongation in cortical neurons. In the developing brain, through its cytoplasmic activity on STMN2, negatively regulates the rate of exit from multipolar stage and of radial migration from the ventricular zone. Phosphorylates several other substrates including heat shock factor protein 4 (HSF4), the deacetylase SIRT1, ELK1, or the E3 ligase ITCH. Phosphorylates the CLOCK-ARNTL/BMAL1 heterodimer and plays a role in the regulation of the circadian clock (PubMed:22441692).

Aliases: C Jun kinase 2 antibody, c Jun N terminal kinase 1 antibody, c Jun N terminal kinase 2 antibody, c Jun N terminal kinase 3 antibody, c-Jun N-terminal kinase 1 antibody, JNK 46 antibody, JNK 55 antibody, JNK antibody, JNK-46 antibody, JNK1 antibody, JNK1+2+3 antibody, JNK1/2/3 antibody, JNK1A2 antibody, JNK2 antibody, JNK21B1/2 antibody, JNK2A antibody, JNK2ALPHA antibody, JNK2B antibody, JNK2BETA antibody, JNK3 alpha protein kinase antibody, JNK3 antibody, JNK3A antibody, Jun kinase antibody, JUN N terminal kinase antibody, MAP kinase 10 antibody, MAP kinase 8 antibody, MAP kinase 9 antibody, MAP kinase p49 3F12 antibody, MAPK 10 antibody, MAPK 8 antibody, MAPK 9 antibody, MAPK10 antibody, mapk8 antibody, MAPK9 antibody, Mitogen activated protein kinase 10 antibody, Mitogen activated protein kinase 8 antibody, Mitogen activated protein kinase 8 isoform JNK1 alpha1 antibody, Mitogen activated protein kinase 8 isoform JNK1 beta2 antibody, Mitogen activated protein kinase 9 antibody, Mitogen-activated protein kinase 8 antibody, MK08_HUMAN antibody, p493F12 antibody, p54a antibody, p54aSAPK antibody, p54bSAPK antibody, PRKM10 antibody, PRKM8 antibody, PRKM9 antibody, SAPK antibody, SAPK(beta) antibody, SAPK1 antibody, SAPK1a antibody, SAPK1b antibody, SAPK1c antibody, Stress activated protein kinase 1 antibody, Stress activated protein kinase 1a antibody, Stress activated protein kinase 1b

Target Details

antibody, Stress activated protein kinase 1c antibody, Stress activated protein kinase beta antibody, Stress activated protein kinase JNK1 antibody, Stress activated protein kinase JNK2 antibody, Stress activated protein kinase JNK3 antibody, Stress-activated protein kinase 1 antibody, Stress-activated protein kinase 1c antibody, Stress-activated protein kinase JNK1 antibody

UniProt: [P45983](#)

Pathways: [MAPK Signaling](#), [WNT Signaling](#), [TLR Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Activation of Innate immune Response](#), [Hepatitis C](#), [Toll-Like Receptors Cascades](#), [Signaling of Hepatocyte Growth Factor Receptor](#), [S100 Proteins](#)

Application Details

Application Notes: Recommended dilution: WB:1:1000-1:5000, IHC:1:20-1:200, IF:1:50-1:200,

Restrictions: For Research Use only

Handling

Format: Liquid

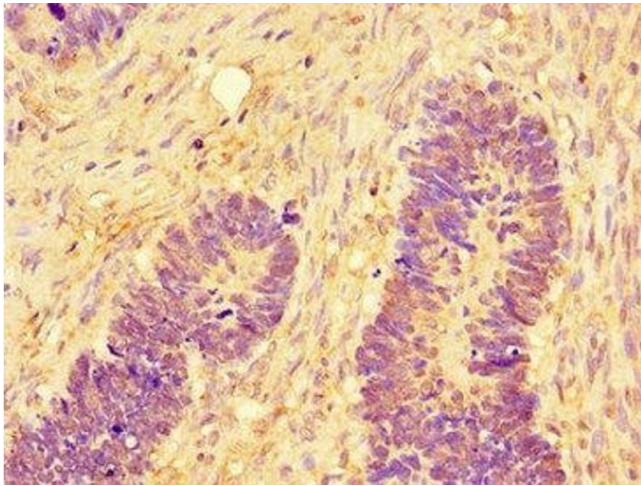
Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4

Preservative: ProClin

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

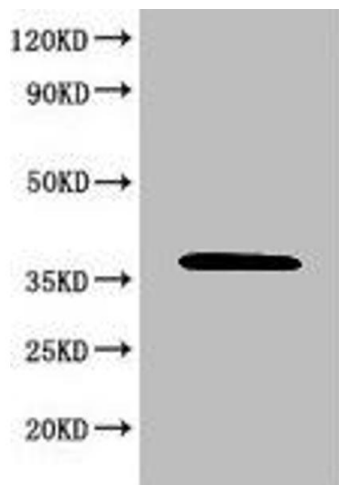
Storage: -20 °C,-80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



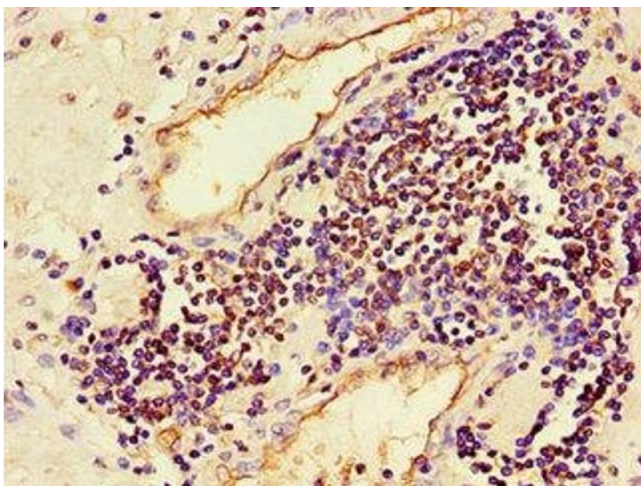
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human ovarian cancer using ABIN7160009 at dilution of 1:100



Western Blotting

Image 2. Western Blot Positive WB detected in: 293T whole cell lysate All lanes: MAPK8 antibody at 6 µg/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 49, 45, 36 KDa Observed band size: 36 KDa



Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded human prostate cancer using ABIN7160009 at dilution of 1:100

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7160009.