

MAPK9 / JNK2 / SAPK Antibody (C-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS11955**Specification****MAPK9 / JNK2 / SAPK Antibody (C-Terminus) - Product Information**

Application	IHC
Primary Accession	P45984
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	48kDa KDa

MAPK9 / JNK2 / SAPK Antibody (C-Terminus) - Additional Information**Gene ID** 5601**Other Names**

Mitogen-activated protein kinase 9, MAP kinase 9, MAPK 9, 2.7.11.24, JNK-55, Stress-activated protein kinase 1a, SAPK1a, Stress-activated protein kinase JNK2, c-Jun N-terminal kinase 2, MAPK9, JNK2, PRKM9, SAPK1A

Target/Specificity

synthetic peptide corresponding to C-terminal residues of human MAPK9 (Mitogen-activated protein kinase 9)

Reconstitution & Storage

+4°C or -20°C, Avoid repeated freezing and thawing.

Precautions

MAPK9 / JNK2 / SAPK Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

MAPK9 / JNK2 / SAPK Antibody (C-Terminus) - Protein Information**Name** MAPK9**Synonyms** JNK2, PRKM9, SAPK1A**Function**

Serine/threonine-protein kinase involved in various processes such as cell proliferation, differentiation, migration, transformation and programmed cell death (PubMed: [10376527](http://www.uniprot.org/citations/10376527), PubMed: [15805466](http://www.uniprot.org/citations/15805466), PubMed: [17525747](http://www.uniprot.org/citations/17525747), PubMed: [19675674](http://www.uniprot.org/citations/19675674), PubMed: [20595622](http://www.uniprot.org/citations/20595622), PubMed: [21364637](http://www.uniprot.org/citations/21364637), PubMed: [10376527](#), PubMed: [15805466](#), PubMed: [17525747](#), PubMed: [19675674](#), PubMed: [20595622](#), PubMed: [21364637](#)

href="http://www.uniprot.org/citations/22441692" target="_blank">22441692, PubMed:34048572). Extracellular stimuli such as pro- inflammatory 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 MAPK9/JNK2 (PubMed:10376527, PubMed:15805466, PubMed:17525747, PubMed:19675674, PubMed:20595622, PubMed:21364637, PubMed:22441692, PubMed:34048572). In turn, MAPK9/JNK2 phosphorylates a number of transcription factors, primarily components of AP-1 such as JUN and ATF2 and thus regulates AP-1 transcriptional activity (PubMed:10376527). In response to oxidative or ribotoxic stresses, inhibits rRNA synthesis by phosphorylating and inactivating the RNA polymerase 1-specific transcription initiation factor RRN3 (PubMed:15805466). Promotes stressed cell apoptosis by phosphorylating key regulatory factors including TP53 and YAP1 (PubMed:17525747, PubMed:21364637). In T-cells, MAPK8 and MAPK9 are required for polarized differentiation of T-helper cells into Th1 cells (PubMed:19290929). Upon T-cell receptor (TCR) stimulation, is activated by CARMA1, BCL10, MAP2K7 and MAP3K7/TAK1 to regulate JUN protein levels (PubMed:19290929). Plays an important role in the osmotic stress- induced epithelial tight-junctions disruption (PubMed:20595622). When activated, promotes beta-catenin/CTNNB1 degradation and inhibits the canonical Wnt signaling pathway (PubMed:19675674). Also participates in neurite growth in spiral ganglion neurons (By similarity). Phosphorylates the CLOCK-BMAL1 heterodimer and plays a role in the regulation of the circadian clock (PubMed:22441692). Phosphorylates POU5F1, which results in the inhibition of POU5F1's transcriptional activity and enhances its proteasomal degradation (By similarity). Phosphorylates ALKBH5 in response to reactive oxygen species (ROS), promoting ALKBH5 sumoylation and inactivation (PubMed:34048572).

Cellular Location

Cytoplasm. Nucleus. Note=Colocalizes with POU5F1 in the nucleus.
{ECO:0000250|UniProtKB:Q9WTU6}

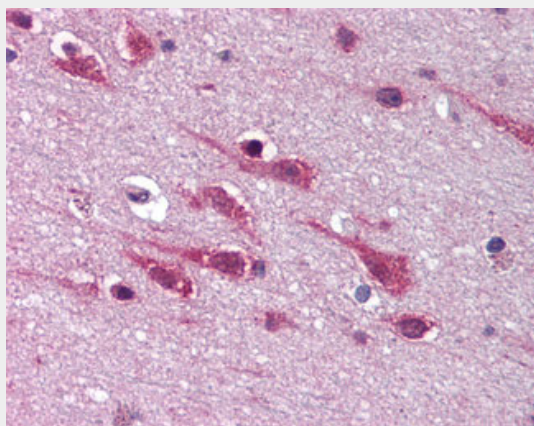
MAPK9 / JNK2 / SAPK Antibody (C-Terminus) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)

- [Cell Culture](#)

MAPK9 / JNK2 / SAPK Antibody (C-Terminus) - Images



Anti-MAPK9 / JNK2 antibody IHC of human brain, cortex.

MAPK9 / JNK2 / SAPK Antibody (C-Terminus) - Background

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MAPK9 / JNK2 / SAPK Antibody (C-Terminus) - References

- Sluss H.K.,et al.Mol. Cell. Biol. 14:8376-8384(1994).
Kallunki T.,et al.Genes Dev. 8:2996-3007(1994).
Gupta S.,et al.EMBO J. 15:2760-2770(1996).
Wang P.,et al.BMB Rep. 43:738-743(2010).
Halleck A.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.