



Anti-MAPK9 (full length) polyclonal antibody (DPAB-DC2469)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description

The protein encoded by this gene 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 kinase targets specific transcription factors, and thus mediates immediate-early gene expression in response to various cell stimuli. It is most closely related to MAPK8, both of which are involved in UV radiation induced apoptosis, thought to be related to the cytochrome c-mediated cell death pathway. This gene and MAPK8 are also known as c-Jun N-terminal kinases. This kinase blocks the ubiquitination of tumor suppressor p53, and thus it increases the stability of p53 in nonstressed cells. Studies of this genes mouse counterpart suggest a key role in T-cell differentiation. Several alternatively spliced transcript variants encoding distinct isoforms have been reported.

Immunogen

MAPK9 (AAH32539, 1 a.a. ~ 424 a.a) full-length recombinant protein with GST tag. The sequence is
 MSDSKCDSQFYSVQVADSTFTVLKRYQQLKPIGSGAQGIVCAAFDTVLGINAVKKLSRP
 FQNQTHAKRAYRELVLLKCVNHKNIISLLNVFTPQKTLEEFQDVYLMELMDANLCQVIH
 MELDHERMSLLYQMLCGIKHLHSAGIIHRDLKPSNIVVKSDCTLKILDGLARTACTNF
 MMTPYVVTRYYRAPEVILGMGYKENVDIWSVGCIMGELVKGCVIFQGTDHIDQWNKVIQ
 LGTPSAEFMKKLQPTVRNYVENRPKYPGIKFEELFPDWIFPSESERDKIKTSQARDLLSK
 MLVIDPDKRISVDEALRHPYITVWYDPAEAEAPPPQIYDAQLEEREHAIEEWKELIYKEV
 MDWEERSKNGVVKDQPSDAVSSNATPSQSSSINDISSMSTEQ

Source/Host

Mouse

Species Reactivity

Human

Conjugate

Unconjugated

Applications

WB (Recombinant protein), ELISA,

| | |
|---------------------|--|
| Size | 50 µl |
| Buffer | 50 % glycerol |
| Preservative | None |
| Storage | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |

GENE INFORMATION

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|----------------------------|---|
| Gene Name | MAPK9 mitogen-activated protein kinase 9 [Homo sapiens (human)] |
| Official Symbol | MAPK9 |
| Synonyms | MAPK9; mitogen-activated protein kinase 9; JNK2; SAPK; p54a; JNK2A; JNK2B; PRKM9; JNK-55; SAPK1a; JNK2BETA; p54aSAPK; JNK2ALPHA; MAPK 9; Jun kinase; MAP kinase 9; c-Jun kinase 2; c-Jun N-terminal kinase 2; stress-activated protein kinase 1a; stress-activated protein kinase JNK2; |
| Entrez Gene ID | 5601 |
| Protein Refseq | NP_001128516 |
| UniProt ID | P45984 |
| Chromosome Location | 5q35 |
| Pathway | AGE/RAGE pathway; Activated TLR4 signalling; Adipocytokine signaling pathway; CD40/CD40L signaling |
| Function | ATP binding; JUN kinase activity; cysteine-type endopeptidase activator activity involved in apoptotic process; mitogen-activated protein kinase kinase binding |