

MAPK1/MAPK3

Reactivity: Human Mouse Rat

Tested applications: WB IHC

Recommended Dilution: WB 1:1000 - 1:2000 IHC 1:50 - 1:200

Calculated MW: 41kDa

Observed MW: Refer to figures

Immunogen:

A synthetic peptide of human MAPK1/MAPK3

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

ERK; p38; p40; p41; ERK2; ERT1; ERK-2; MAPK2; PRKM1; PRKM2; P42MAPK; p41mapk; p42-MAPK;

Catalog #: A10613

Antibody Type:

Monoclonal Antibody

Species: Mouse

Gene ID: 5594/5595

Isotype: IgG

Swiss Prot: P28482/P27361

Purity: Affinity purification

For research use only.

Background:

This gene encodes a member of the MAP kinase family. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), 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. The activation of this kinase requires its phosphorylation by upstream kinases. Upon activation, this kinase translocates to the nucleus of the stimulated cells, where it phosphorylates nuclear targets. One study also suggests that this protein acts as a transcriptional repressor independent of its kinase activity. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. Two alternatively spliced transcript variants encoding the same protein, but differing in the UTRs, have been reported for this gene.

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