Product Name: MP2K1 Mouse Monoclonal Antibody

Catalog #: AMM86035



Summary

Production Name MP2K1 Mouse Monoclonal Antibody

Description Mouse Monoclonal Antibody

Host Mouse
Application WB,FC

Reactivity Human, Mouse, Rat

Performance

ConjugationUnconjugatedModificationUnmodifiedIsotypeMouse IgG1ClonalityMonoclonalFormLiquid

Storage Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Buffer Purified antibody in PBS with 0.05% sodium azide.

Purification Affinity Purification

Immunogen

Gene Name MP2K1

Dual specificity mitogen-activated protein kinase kinase 1, MAP kinase kinase 1,

Alternative Names MAPKK 1, MKK1, 2.7.12.2, ERK activator kinase 1, MAPK/ERK kinase 1, MEK 1, MAP2K1,

MEK1, PRKMK1

Gene ID 5604.0

Q02750. This MP2K1 antibody is generated from a mouse immunized with a **SwissProt ID**

recombinant protein between 1-393 amino acids from human MP2K1.

Application

Dilution Ratio WB:1:2000,FC:1:25

Molecular Weight 43.4kDa

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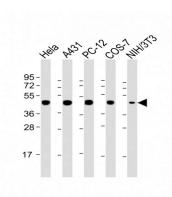
Background

Dual specificity protein kinase which acts as an essential component of the MAP kinase signal transduction pathway. Binding of extracellular ligands such as growth factors, cytokines and hormones to their cell-surface receptors activates RAS and this initiates RAF1 activation. RAF1 then further activates the dual-specificity protein kinases MAP2K1/MEK1 and MAP2K2/MEK2. Both MAP2K1/MEK1 and MAP2K2/MEK2 function specifically in the MAPK/ERK cascade, and catalyze the concomitant phosphorylation of a threonine and a tyrosine residue in a Thr-Glu-Tyr sequence located in the extracellular signal-regulated kinases MAPK3/ERK1 and MAPK1/ERK2, leading to their activation and further transduction of the signal within the MAPK/ERK cascade. Depending on the cellular context, this pathway mediates diverse biological functions such as cell growth, adhesion, survival and differentiation, predominantly through the regulation of transcription, metabolism and cytoskeletal rearrangements. One target of the MAPK/ERK cascade is peroxisome proliferator- activated receptor gamma (PPARG), a nuclear receptor that promotes differentiation and apoptosis. MAP2K1/MEK1 has been shown to export PPARG from the nucleus. The MAPK/ERK cascade is also involved in the regulation of endosomal dynamics, including lysosome processing and endosome cycling through the perinuclear recycling compartment (PNRC), as well as in the fragmentation of the Golgi apparatus during mitosis.

Research Area

TGF-beta signaling pathway,PI3K-Akt signaling pathway,mTOR signaling pathway,MAPK signaling pathway,Jak-STAT signaling pathway

Image Data



All lanes: Anti-MP2K1 Antibody at 1:4000 dilution

Note

For research use only.