Product Name: MEK1 (15N17) Rabbit Monoclonal

Antibody

Catalog #: AMRe13797



Summary

Production Name MEK1 (15N17) Rabbit Monoclonal Antibody

Description Rabbit Monoclonal Antibody

Host Rabbit

Application WB,IHC-P,ICC/IF,FC,IF-P

Reactivity Human, Mouse, Rat

Performance

ConjugationUnconjugatedModificationUnmodified

Isotype IgG

Clonality Monoclonal Form Liquid

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

Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type

Buffer preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term.

Avoid freeze / thaw cycle.

Purification Affinity purification

Immunogen

Gene Name MAP2K1

MAPKK1; MEK1; MP2K1; PRKMK1; kinase MEK1; ERK activator kinase 1; MAP kinase Alternative Names

kinase 1; MAP2K1; MAPK/ERK kinase 1; MAPKK 1;

 Gene ID
 5604.0

 SwissProt ID
 Q02750.

Application

Dilution Ratio WB 1:1000, IHC-P/IF-P 1:100, ICC/IF 1:200-1:500, FCM 1:100

Molecular Weight 43kDa

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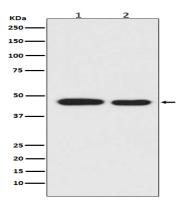


Background

The protein encoded by this gene is a member of the dual specificity protein kinase family, which acts as a mitogenactivated protein (MAP) kinase kinase. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. 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. Activates BRAF in a KSR1 or KSR2dependent manner; by binding to KSR1 or KSR2 releases the inhibitory intramolecular interaction between KSR1 or KSR2 protein kinase and N-terminal domains which promotes KSR1 or KSR2-BRAF dimerization and BRAF activation (PubMed: 29433126). 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

Image Data



Western blot analysis of MEK1 expression in (1) A431 cell lysate;(2) HeLa cell lysate.

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Note

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