

Mek1 Polyclonal Antibody

CATALOG #: 3111-100

AMOUNT: 100 µg

LOT #: _____

HOST: Rabbit

IMMUNOGEN: Synthetic peptide surrounding amino acid 283 of human MEK1

SPECIES REACTIVITY: human, mouse, rat

FORMULATION:

100 µg (0.5 mg/ml) peptide affinity purified rabbit anti-Mek1 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA, 0.02% thimerosal.

STORAGE CONDITIONS:

Store at -20°C. For long-term storage, aliquot and freeze at -70°C. Avoid repeated freeze/thaw cycles.

BACKGROUND DESCRIPTION:

MAP kinase kinase 1 (Mek1), also known as mitogen activated protein kinase kinase, MAP kinase kinase, ERK kinase 1 or microtubule-associated protein 2 kinase, is a 43 kDa dual-specificity protein kinase that phosphorylates threonine and tyrosine residues on MAP kinases such as Erk 1 and 2. Phosphorylation by Mek1 increases Erks' ability to phosphorylate microtubule-associated proteins and myelin basic proteins. Mek1 is involved in a diverse array of cellular processes such as stress-activated response, apoptosis, cytokine-induced cell proliferation, and DNA recombination during meiosis. Mek1 is activated by phosphorylation on serine 218 and 222 by serine-threonine kinase, Raf-1, which is part of the p21ras signal transduction pathway.

APPLICATION AND USAGE:

The antibody can be used for Western blot analysis (1-3 µg/ml), immunoprecipitation (4-8 µg/ml), and immunohistochemistry (20-40 µg/ml). However, the optimal conditions should be determined individually.

SPECIFICITY:

The immunoaffinity-purified rabbit antibody recognizes a 43 kDa protein, corresponding to the apparent molecular weight of Mek1 on SDS-PAGE immunoblots, in samples of human, mouse, rat origins. The antibody specificity is confirmed by specific peptide inhibition in immunoblotting.

USAGE: For Research Use Only. Not to be used in human.

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- Nuclear Apoptosis Kits & Reagents
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