

MEK Kinase-4 rabbit pAb

Cat No.: ES6230

For research use only

Overview

Product Name MEK Kinase-4 rabbit pAb

Host species Rabbit
Applications IHC;IF;ELISA
Species Cross-Reactivity Human;Mouse

Recommended dilutions Immunohistochemistry: 1/100 - 1/300. ELISA:

1/5000. Not yet tested in other applications.

Immunogen The antiserum was produced against synthesized

peptide derived from human MAP3K4. AA

range:1281-1330

Specificity MEK Kinase-4 Polyclonal Antibody detects

endogenous levels of MEK Kinase-4 protein.

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and

0.02% sodium azide.

Storage Store at -20°C. Avoid repeated freeze-thaw cycles.

Protein Name Mitogen-activated protein kinase kinase 4

Gene Name MAP3K4

Cellular localization Cytoplasm, perinuclear region . Localized in

perinuclear vesicular-like structures, probably

Golgi-associated vesicles. .

Purification The antibody was affinity-purified from rabbit

antiserum by affinity-chromatography using

epitope-specific immunogen.

Clonality Polyclonal Concentration 1 mg/ml

Observed band

Human Gene ID 4216 Human Swiss-Prot Number Q9Y6R4

Alternative Names MAP3K4; KIAA0213; MAPKKK4; MEKK4; MTK1;

Mitogen-activated protein kinase kinase 4; MAP three kinase 1; MAPK/ERK kinase kinase 4;

MEK kinase 4; MEKK 4

Background The central core of each mitogen-activated protein

kinase (MAPK) pathway is a conserved cascade of 3

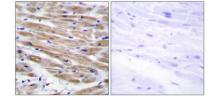


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protein kinases: an activated MAPK kinase kinase (MAPKKK) phosphorylates and activates a specific MAPK kinase (MAPKK), which then activates a specific MAPK. While the ERK MAPKs are activated by mitogenic stimulation, the CSBP2 and JNK MAPKs are activated by environmental stresses such as osmotic shock, UV irradiation, wound stress, and inflammatory factors. This gene encodes a MAPKKK, the MEKK4 protein, also called MTK1. This protein contains a protein kinase catalytic domain at the C terminus. The N-terminal nonkinase domain may contain a regulatory domain. Expression of MEKK4 in mammalian cells activated the CSBP2 and JNK MAPK pathways, but not the ERK pathway. In vitro kinase studies indicated that recombinant MEKK4 can specifically phosphorylate and activate PRKMK6

Immunohistochemistry analysis of paraffin-embedded human heart tissue, using MAP3K4 Antibody. The picture on the right is blocked with the synthesized peptide.



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