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MAP2K2

Reactivity: Human Mouse Rat

Tested applications:WB IHC

Recommended Dilution:WB 1:500 - 1:2000 IHC 1:50 - 1:200

Calculated MW:44kDa

Observed MW: Refer to Figures

Immunogen:

A synthetic peptide of human MAP2K2

Storage Buffer:

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

Concentration:

ioq

Synonym:

MAP2K2;FLJ26075;MAPKK2;MEK2;MKK2;PRKMK2 ;

Catalog #:A0253

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID:5605

Isotype: IgG

Swiss Prot:P36507

Purity: Affinity purification

For research use only.

Background:

MEK1 and MAP2K2, also called MAPK or Erk kinases, are dual-specificity protein kinases that function in a mitogen activated protein kinase cascade controlling cell growth and differentiation (1-3). Activation of MEK1 and MAP2K2 occurs through phosphorylation of two serine residues at positions 217 and 221, located in the activation loop of subdomain VIII, by Raf-like molecules. MEK1/2 is activated by a wide variety of growth factors and cytokines and also by membrane depolarization and calcium influx (1-4). Constitutively active forms of MEK1/2 are sufficient for the transformation of NIH/3T3 cells or the differentiation of PC-12 cells (4). MEK activates p44 and p42 MAP kinase by phosphorylating both threonine and tyrosine residues at sites located within the activation loop of kinase subdomain VIII.

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