

## MAP2K2

**Reactivity:**Human Mouse

**Tested applications:**WB IHC IF

**Recommended Dilution:**WB 1:500 - 1:1000 IHC 1:50 - 1:100 IF1:20 - 1:100

**Calculated MW:**44kDa

**Observed MW:**Refer to Figures

**Immunogen:**

A synthetic peptide of human MAP2K2

**Storage Buffer:**

Store at 4. 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 #:**A0143

**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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