**MEK1/2 Antibody**

For Research Use Only. Not For Use In Diagnostic Procedures.

**Product Usage Information**

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<th>Reactivity</th>
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<th>MW (kDa)</th>
<th>Source</th>
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<td>H M R Mk Dm</td>
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<td>45</td>
<td>Rabbit</td>
<td>P36507, Q02750</td>
<td>5605, 5604</td>
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<td>Immunoprecipitation</td>
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**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

**Specificity / Sensitivity**

MEK1/2 Antibody detects endogenous levels of total MEK1/2 protein. The antibody does not cross-react with related kinases such as SEK (MKK4), MKK3 or MKK6.

**Species Reactivity:**

Human, Mouse, Rat, Monkey, D. melanogaster

**Species predicted to react based on 100% sequence homology:**

Chicken, Xenopus

**Source / Purification**

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the sequence of human MEK1/2. Antibodies are purified by protein A and peptide affinity chromatography.

**Background**

MEK1 and MEK2, 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 MEK2 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.


**IMPORTANT:** For primary antibodies recommended for western blotting applications, we recommend incubating the membrane with diluted antibody at 4°C with gentle shaking overnight. Please refer to the western blot protocol found on the product web page for the antibody-specific diluent recommendation.

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https://www.cellsignal.com/datasheet.jsp?productid=#9122&images=0&protocol=0

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