

MEK1/2 Antibody



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Applications: Reactivity: Sensitivity: MW (kDa): Source: **UniProt ID:** Entrez-Gene Id: #P36507, #Q02750 WB, IP HMR Mk Dm Endogenous 45 Rabbit 5605, 5604

Product Usage Application Dilution Information Western Blotting 1:1000 Immunoprecipitation 1:50

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at -**Storage**

20°C. Do not aliquot the antibody.

MEK1/2 Antibody detects endogenous levels of total MEK1/2 protein. The antibody does not cross-react Specificity / Sensitivity

with related kinases such as SEK (MKK4), MKK3 or MKK6.

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.

MEK1 and MEK2, also called MAPK or Erk kinases, are dual-specificity protein kinases that function in a **Background**

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.

1. Crews, C.M. et al. (1992) Science 258, 478-480. **Background References**

2. Alessi, D.R. et al. (1994) EMBO J. 13, 1610-19.

3. Rosen, L.B. et al. (1994) Neuron 12, 1207-21.

4. Cowley, S. et al. (1994) Cell 77, 841-52.

Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS,

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key WB: Western Blotting IP: Immunoprecipitation

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key**

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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