

#9125 Store at -20°C

MEK2 Antibody



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rev. 07/28/17

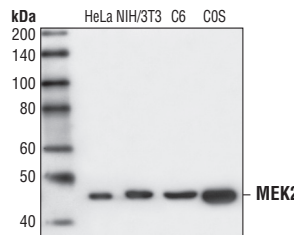
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Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W	H, M, R, Mk	45 kDa	Rabbit**

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 (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 PC12 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.

Specificity/Sensitivity: MEK2 Antibody detects endogenous levels of total MEK2. This antibody does not cross-react with MEK1 and other MAP kinase kinases.

Source/Purification: Polyclonal antibodies are produced by immunizing rabbits with a synthetic peptide (KLH-coupled) corresponding to human MEK2. Antibodies are purified by protein A and peptide affinity chromatography.



Western blot analysis of extracts from HeLa, NIH/3T3, C6 and COS cells using MEK2 Antibody.

Background References:

- (1) Crews, C.M. et al. (1992) *Science* 258, 478-480.
- (2) Alessi, D.R. et al. (1994) *EMBO J.* 13, 1610-1619.
- (3) Rosen, L.B. et al. (1994) *Neuron* 12, 1207-1221.
- (4) Cowley, S. et al. (1994) *Cell* 77, 841-852.

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.

***Species cross-reactivity is determined by Western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:
Western Blotting 1:1000

- Companion Products:**
- Phospho-p44/42 MAP Kinase (Thr202/Tyr204) Antibody #9101
 - p44/42 MAP Kinase Antibody #9102
 - PhosphoPlus® MEK1/2 (Ser217/221) Antibody Kit #9120
 - Phospho-MEK1/2 (Ser217/221) Antibody #9121
 - MEK1/2 Antibody #9122
 - MEK1 Antibody #9124
 - PD98059 (MEK1 Inhibitor) #9900
 - U0126 (MEK1/2 Inhibitor) #9903
 - MEK1/2 (47E6) Rabbit mAb #9126
 - Phospho-MEK1 (Thr286) Antibody #9127
 - Phototope®-HRP Western Blot Detection System, Anti-rabbit IgG, HRP-linked Antibody #7071
 - Anti-rabbit IgG, HRP-linked Antibody #7074
 - Prestained Protein Marker, Broad Range (Premixed Format) #7720
 - Biotinylated Protein Ladder #7727
 - 20X LumiGLO® Reagent and 20X Peroxide #7003

IMPORTANT: For Western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

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Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide
Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine
Dg—dog Pg—pig Sc—S. cerevisiae All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.