

Phospho-MEK1/2(Ser217/221) Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
45	Rabbit	#P36507, #Q02750	5605, 5604

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 Phospho-MEK1/2 (Ser217/221) Antibody can be used in high throughput kinase assays and drug discovery applications. It detects peptides derived from MEK1/2 phosphorylated at Ser217/221.

Source / Purification Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser217/221 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. Description: This antibody is formulated in PBS (no BSA/no glycerol) and quality controlled for ELISA and other drug discovery applications. This is a sample antibody and intended for use by drug discovery scientists. Please direct inquiries for bulk pricing of this antibody, peptide substrates, or protocols to bulks@cellsignal.com.

Background References

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

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