

Store at -20C
#2354**Phospho-MEK1/2 (Ser217/221) (166F8)
Rabbit mAb****Orders:** 877-616-CELL (2355)
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MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
45	Rabbit IgG	#P36507, #Q02750	5605, 5604

Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.
Specificity/Sensitivity	Phospho-MEK1/2 (Ser217/221) (166F8) Rabbit mAb detects endogenous levels of MEK1/2 only when phosphorylated at serine 217/221.
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser217/221 of human MEK1/2.
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.
Background References	<ol style="list-style-type: none"> 1. Crews, C.M. et al. (1992) <i>Science</i> 258, 478-480. 2. Alessi, D.R. et al. (1994) <i>EMBO J.</i> 13, 1610-19. 3. Rosen, L.B. et al. (1994) <i>Neuron</i> 12, 1207-21. 4. Cowley, S. et al. (1994) <i>Cell</i> 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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