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PhosphoPlus[®] MEK1/2 (Ser217/Ser221) Antibody Duet



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

UniProt ID: Entrez-Gene Id: #P36507, #Q02750 5605, 5604

Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
MEK1/2 (D1A5) Rabbit mAb	8727	100 µl	45 kDa	Rabbit IgG
Phospho-MEK1/2 (Ser217/221) (41G9) Rabbit mAb	9154	100 μΙ	45 kDa	Rabbit IgG

Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

Description

PhosphoPlus® Duets from Cell Signaling Technology (CST) provide a means to assess protein activation status. Each Duet contains an activation-state and total protein antibody to your target of interest. These antibodies have been selected from CST's product offering based upon superior performance in specified applications.

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.

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

- 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.

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