

**MEK1 (C-term) Rabbit Monoclonal Antibody
Product Data Sheet**

Catalog #1235-1

Clone ID: Y77 **Lot #:** C05512
Quantity: 100 µl
Type: Rabbit Monoclonal IgG
Species Cross-reactivity: Human Mouse Rat
Applications: WB IHC ICC Flow Cytometry IP
Molecular Wt.: 45 kDa
UniProt ID: Q02750

Background: MEK1 and MEK2 (MAPK kinase 1/2, or ERK kinase 1/2) are mitogen-activated protein kinases that stimulate MAP kinase activity, playing a role in both cell growth and differentiation (1,2). MEK itself is activated via phosphorylation at serines 217/218 and 221/222 by upstream activator kinases, including c-raf, mos and MEK kinase (3,4). MEK1 and MEK2 are activated by a wide variety of growth factors and cytokines, and also by membrane depolarization and calcium influx (5).

Specificity: A synthetic peptide corresponding to residues in C-terminus of human MEK1 was used as immunogen. The antibody does not cross-react with other MAP kinase kinase family members.

Storage Conditions: Store at -20 °C. Buffer: 50 mM Tris-Glycine (pH 7.4), 0.15 M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.

Recommended Dilutions:

WB: 1:10,000
IHC: 1:250
ICC: 1:250–1:500
Flow Cytometry: 1:40
IP: 1:50

Background References:

1. Crews, C. M., et al. The primary structure of MEK, a protein kinase that phosphorylates the ERK gene product. *Science* 258: 478–480 (1992).
2. Zheng, C.F., and K.L. Guan. Cloning and characterization of two distinct human extracellular signal-regulated kinase activator kinases, MEK1 and MEK2. *J Biol Chem.* 268: 11435–9 (1993).
3. Zheng, C.F., and K.L. Guan. Activation of MEK family kinases requires phosphorylation of two conserved Ser/Thr residues. *EMBO J.* 13: 1123–31 (1994).
4. Alessi, D.R., et al. Identification of the sites in MAP kinase kinase-1 phosphorylated by p74raf-1. *EMBO J.* 13: 1610–1619 (1994).
5. Rosen, L.B., et al. Membrane depolarization and calcium influx stimulate MEK and MAP kinase via activation of Ras. *Neuron* 12: 1207–1221 (1994).

kDa
250-
150-
100-
75-
50-
37-
25-
20-



Fig 1. Western blot analysis on Jurkat cell lysate using anti-MEK1 (C-term) RabMAb (cat. #1235-1); dilution 1:10,000.

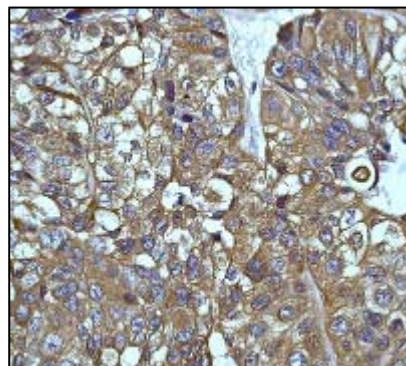


Fig 2. Immunohistochemical analysis of urinary bladder carcinoma using anti-MEK1 (C-term) RabMAb (cat. #1235-1).

For research use only. Not for use in diagnostic or therapeutic applications.

This product was manufactured under U.S. Patent No. 5,675,063. For a complete list of protocols and available related products, please visit www.epitomics.com.

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Rev. A/06-05/JS

Product QC'd by: _____

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