

MEK1 (D67N)

Catalog Number: 26224

Gene Symbol: MAP2K1; MAPKK1; MEK1; MKK1; PRKMK1

Description: Anti-MEK1 (D67N) Mouse Monoclonal Antibody

Background: MEK1 (also known as extracellular signal-regulated kinases, ERKs) plays important role in the MAP kinase cascade, which transduces multiple extracellular signals to control cell growth, proliferation and differentiation. Activated upon growth factors stimulation, MEK1 phosphorylates MAPK3/ERK1 and MAPK1/ERK2, thus activates the MAP pathway and regulates transcription. Abnormal of the MEK1 protein, including point mutations, are implicated in diseases such as cardiofaciocutaneous syndrome (CFC) and melanoma.

Immunogen: A synthetic peptide from the internal region of MEK1 which includes the mutation of D67N, human origin.

Tested applications: ELISA, WB, IHC

Recommended dilutions:

ELISA: 1:1000-1:2000

WB: 1:500-1:1000

IHC: 1:50-1:100

Concentration: 1 mg/ml

Host: Mouse

Clonality: Monoclonal

Purity: Purified from ascites

Format: Liquid

Storage buffer:

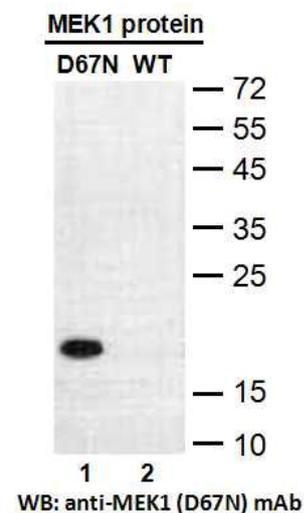
Preservative: no

Constituents: PBS (without Mg^{2+} and Ca^{2+}), pH 7.4, 150 mM NaCl, 50% glycerol

Species Reactivity: Recognizes D67N mutant, but not wild-type MEK1 of vertebrates.

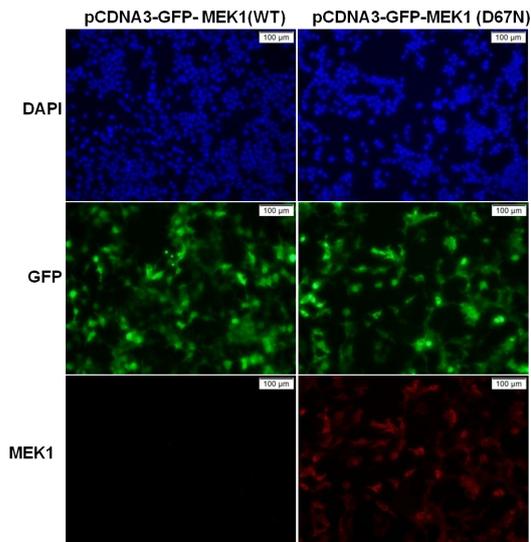
Storage Conditions: Store at $-20^{\circ}C$. Avoid freeze / thaw cycles.

Western blot:



Western blot analysis of recombinant MEK1 (D67N) and wildtype proteins. Purified His-tagged MEK1 (D67N) protein (lane 1) and corresponding wildtype protein (lane 2) were blotted with anti-MEK1 (D67N) monoclonal antibody (Cat. #26224).

Immunofluorescence:



Immunofluorescence of cells expressing MEK1 proteins with anti-MEK1 (D67N) antibody. HEK293T cells were transfected with pCDNA3-GFP-MEK1 (WT) plasmid (left column) or pCDNA3-GFP-MEK1 (D67N) plasmid (right column), then fixed and stained with anti-MEK1 (D67N) monoclonal antibody (Cat. #26224).