MEK1(I111S)

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Cat. #: 26264
Gene Symbol: MAP2K1; MAPKK1; MEK1; MKK1; PRKMK1
Description: Anti-MEK1(I111S) 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 I111S, human origin.
Applications: ELISA, WB, IHC
Recommended Dilutions:
ELISA: 1:1000-1:5000
WB: 1:500-1:1000
IHC: 1:50-1:100
Concentration: 1 mg/ml
Host Species: Mouse
Format: Liquid
Clonality: Monoclonal
Isotype: IgG
Purity: Purified from ascites
Preservative: No
Constituents: PBS (without Mg^{2+} and Ca^{2+}), pH 7.4, 150 mM NaCl, 50% glycerol
Species Reactivity: Recognizes I111S mutant, but not wild type MEK1 of vertebrates.
Storage Conditions: Store at -20°C. Avoid repeated freezing and thawing

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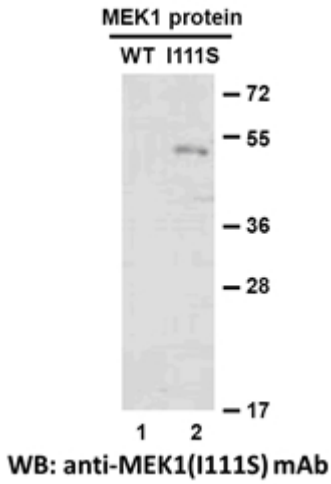
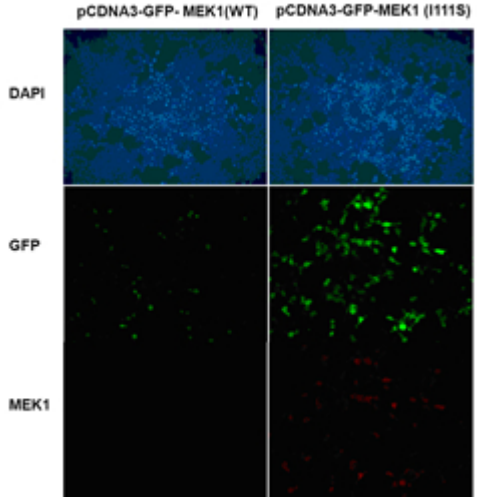
Western blot:



Western blot analysis of recombinant MEK1 (I111S) and wild type proteins. Purified His-tagged MEK1 (I111S) protein (lane 2) and corresponding wild type protein (lane 1) were blotted with Anti-MEK1(I111S) monoclonal antibody (Cat. #26264).

Immunofluorescence:



Immunofluorescence of cells expressing MEK1 proteins with Anti-MEK1(I111S) antibody. HEK293T cells were transfected with pCDNA3-GFP-MEK1 (WT) plasmid (left column) or pCDNA3-GFP-MEK1 (I111S) plasmid (right column), then fixed and stained with Anti-MEK1(I111S) monoclonal antibody (Cat. #26264).

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