

**MEK1(Q56P)****MEK1(Q56P)****Cat. #:** 26222**Gene Symbol:** MAP2K1; MAPKK1; MEK1; MKK1; PRKMK1**Description:** Anti-MEK1(Q56P) 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 Q56P, human origin.

**Applications:** ELISA, WB, IF, IHC

**Recommended Dilutions:**

ELISA: 1:1000–1:5000

WB: 1:500–1:1000

IHC: 1:50–1:10

**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

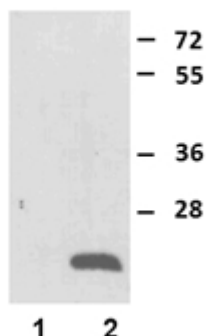
**Species Reactivity:** Recognizes Q56P mutant, but not wild type MEK1 of vertebrates.

**Storage Conditions:** Store at  $-20^{\circ}C$ . Avoid repeated freezing and thawing

## Western blot:

MEK1 proteins

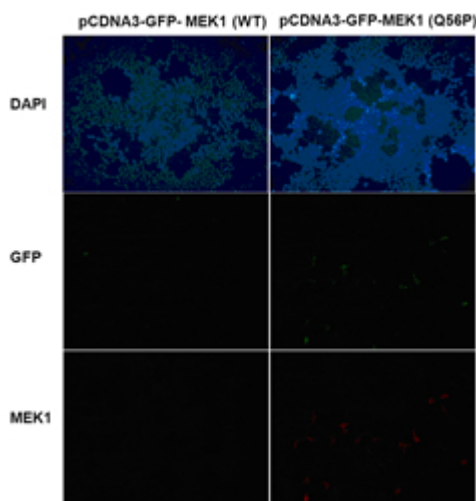
WT Q56P



WB: Anti-MEK1 (Q56P) mAb

Western blot analysis of recombinant MEK1 (Q56P) and wild type proteins. Purified His-tagged MEK1 (Q56P) protein (lane 2) and corresponding wild type protein (lane 1) were blotted with Anti-MEK1(Q56P) monoclonal antibody (Cat. #26222).

## Immunofluorescence:



Immunofluorescence of cells expressing MEK1 proteins with Anti-MEK1(Q56P) antibody. HEK293T cells were transfected with pCDNA3-GFP-MEK1 (WT) plasmid (left column) or pCDNA3-GFP-MEK1 (Q56P) plasmid (right column), then fixed and stained with Anti-MEK1(Q56P) monoclonal antibody (Cat. #26222).