bsm-33216M **[Primary Antibody]**

MEK2 Mouse mAb

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DATASHEET

Host: Mouse **Isotype:** IgG

Clonality: Monoclonal **CloneNo.:** 4C3

GeneID: 407835 **SWISS:** P36507

Target: MEK2

Immunogen: Recombinant human MEK2 Protein: 1-171/400.

Purification: affinity purified by Protein G

Concentration: 1mg/ml

Storage: Size : 50ul/100ul/200ul
0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Size : 200ug (PBS only)
0.01M PBS
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase is known to play a critical role in mitogen growth factor signal transduction. It phosphorylates and thus activates MAPK1/ERK2 and MAPK2/ERK3. The activation of this kinase itself is dependent on the Ser/Thr phosphorylation by MAP kinase kinase kinases. Mutations in this gene cause cardiofaciocutaneous syndrome (CFC syndrome), a disease characterized by heart defects, mental retardation, and distinctive facial features similar to those found in Noonan syndrome. The inhibition or degradation of this kinase is also found to be involved in the pathogenesis of Yersinia and anthrax. A pseudogene, which is located on chromosome 7, has been identified for this gene. [provided by RefSeq, Jul 2008].

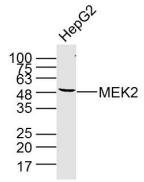
Applications: **WB** (1:1000-2000)
IHC-P (1:200-1000)
IHC-F (1:200-1000)
IF (1:100-500)

Reactivity: Human, Mouse, Rat

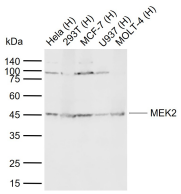
Predicted MW.: 46 kDa

Subcellular Location: Cell membrane ,Cytoplasm

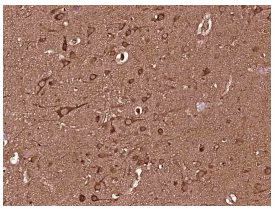
VALIDATION IMAGES



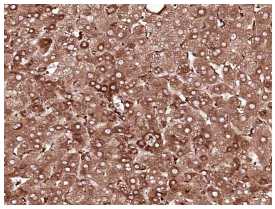
Sample: HepG2 Cell (Human) Lysate at 40 ug Primary: Anti-MEK2 (bsm-33216M) at 1/2 000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 46 kD Observed band size: 48 kD



Sample: Lane 1: Human Hela cell lysates Lane 2: Human 293T cell lysates Lane 3: Human MCF-7 cell lysates Lane 4: Human U937 cell lysates Lane 5: Human MOLT-4 cell lysates Primary: Anti-MEK2 (bsm-33216M) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 46 kDa Observed band size: 46 kDa



Paraformaldehyde-fixed, paraffin embedded (Human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MEK2) Monoclonal Antibody, Unconjugated (bsm-33216M) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Mouse) (sp-0024) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Human liver carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MEK2) Monoclonal Antibody, Unconjugated (bsm-33216M) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Mouse) (sp-0024) instructionsand DAB staining.