MEK-2 Mouse mAb

CatalogNo: YM0435 Orthogonal Validated

Key Features

Host Species
- Mouse

Reactivity
- Human,Mouse,Rat

Applications
- WB,IF,FC,ELISA

MW
- 44kD (Calculated)

Recommended Dilution Ratios

WB 1:500-1:2000
IF 1:200-1:1000
Flow Cyt 1:200-1:400
ELISA 1:10000
Not yet tested in other applications.

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Monoclonal

Immunogen Information

Immunogen	Purified recombinant fragment of human MEK-2 expressed in E. Coli.
Specificity	MEK-2 Monoclonal Antibody detects endogenous levels of MEK-2 protein.

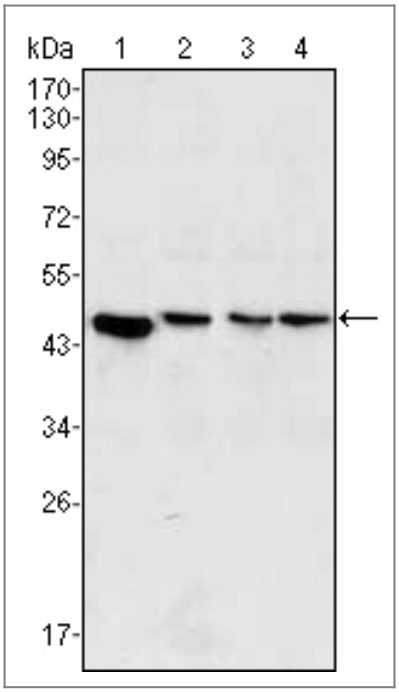
Target Information

Gene name	MAP2K2
Protein Name	Dual specificity mitogen-activated protein kinase kinase 2

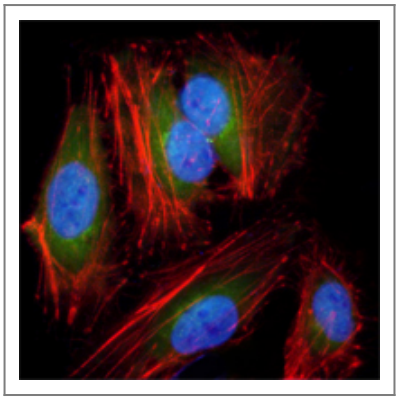
Organism	Gene ID	UniProt ID
Human	5605;	P36507;
Mouse	26396;	Q63932;
Rat	58960;	P36506;

Cellular Localization	Cytoplasm . Membrane ; Peripheral membrane protein . Membrane localization is probably regulated by its interaction with KSR1. .
Tissue specificity	Colon carcinoma,Epithelium,Human cerebellum,Muscle,Platelet
Function	Catalytic activity:ATP + a protein = ADP + a phosphoprotein.,Disease:Defects in MAP2K2 are a cause of cardiofaciocutaneous syndrome (CFC syndrome) [MIM:115150]; also known as cardio-facio-cutaneous syndrome. CFC syndrome is characterized by a distinctive facial appearance, heart defects and mental retardation. Heart defects include pulmonic stenosis, atrial septal defects and hypertrophic cardiomyopathy. Some affected individuals present with ectodermal abnormalities such as sparse, friable hair, hyperkeratotic skin lesions and a generalized ichthyosis-like condition. Typical facial features are similar to Noonan syndrome. They include high forehead with bitemporal constriction, hypoplastic supraorbital ridges, downslanting palpebral fissures, a depressed nasal bridge, and posteriorly angulated ears with prominent helices. The inheritance of CFC syndrome is autosomal dominant.,Function:Catalyzes the concomitant phosphorylation of a threonine and a tyrosine residue in a Thr-Glu-Tyr sequence located in MAP kinases. Activates the ERK1 and ERK2 MAP kinases.,PTM:MAPKK is itself dependent on Ser/Thr phosphorylation for activity catalyzed by MAP kinase kinase kinases (RAF or MEKK1).,similarity:Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. MAP kinase kinase subfamily.,similarity:Contains 1 protein kinase domain.,subunit:Interacts with MORG1.,

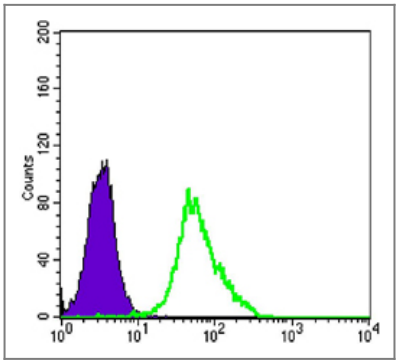
Validation Data



Western Blot analysis using MEK-2 Monoclonal Antibody against PC-12 (1), Jurkat (2), HeLa (3) and NIH/3T3 (4) cell lysate.



Immunofluorescence analysis of Hela cells using MEK-2 Monoclonal Antibody (green). Red: Actin filaments have been labeled with DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye.



Flow cytometric analysis of Hela cells using MEK-2 Monoclonal Antibody (green) and negative control (purple).

Contact information

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Please scan the QR code to access additional product information:
MEK-2 Mouse mAb