

## MEK1/2 (ANT0033R) Rabbit mAb

CatalogNo: ANT8273 **Recombinant** 

Formulation: PBS,50%glycerol,0.05%Proclin 300,0.05%BSA  
Quantity : 100 ug/vial

### Host Species

- Rabbit
- Human,Mouse,Rat,

### Reactivity

- WB,IHC,IF,IP,ELISA

### Applications

### MW

- 44kD (Calculated)
- 44kD (Observed)

### Isotype

- IgG,Kappa

## Recommended Dilution Ratios

IHC 1:500-1:2000

WB 1:1000-1:5000

IF 1:200-1:1000

ELISA 1:5000-1:20000

IP 1:50-1:200

## Storage

**Storage\*** -15°C to -25°C/1 year(Do not lower than -25°C)

## Basic Information

**Clonality** Monoclonal

**Clone Number** ANT0033R

## Target Information

Endogenous

Gene name MAP2K1/MAP2K2

Protein Name Dual specificity mitogen-activated protein kinase kinase 1/2

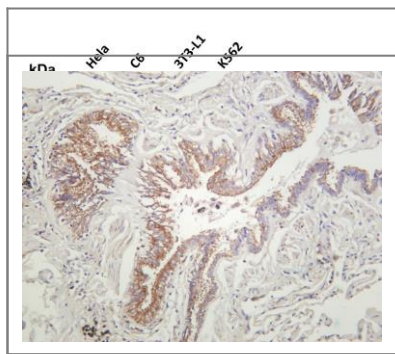
Organism	Gene ID	UniProt ID
Human	<a href="#">5604</a> ; <a href="#">5605</a> ;	<a href="#">Q02750</a> ; <a href="#">P36507</a> ;
Mouse	<a href="#">26395</a> ; <a href="#">26396</a> ;	
Rat	<a href="#">170851</a> ; <a href="#">58960</a> ;	<a href="#">Q01986</a> ; <a href="#">P36506</a> ;

Cellular Localization Cytoplasm

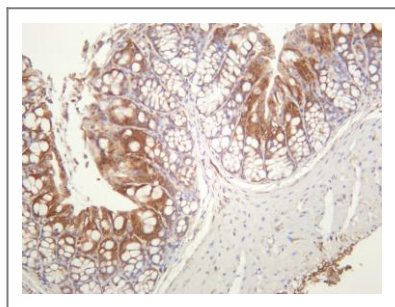
Tissue specificity Widely expressed, with extremely low levels in brain.

Function Catalytic activity:ATP + a protein = ADP + a phosphoprotein.,Disease:Defects in MAP2K1 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.,enzyme regulation:Activated by phosphorylation.,Function:Catalyzes the concomitant phosphorylation of a threonine and a tyrosine residue in a Thr-Glu-Tyr sequence located in MAP kinases. Activates ERK1 and ERK2 MAP kinases.,ANTM:Acetylation by Yersinia yopJ prevents phosphorylation and activation, thus blocking the MAPK signaling pathway.,PTM:Phosphorylation on Ser/Thr by MAP kinase kinase kinases (RAF or MEKK1) regulates positively the kinase activity.,similarity:Belongs to the protein kinase superfamily.,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 (By similarity). Interacts with Yersinia yopJ.,

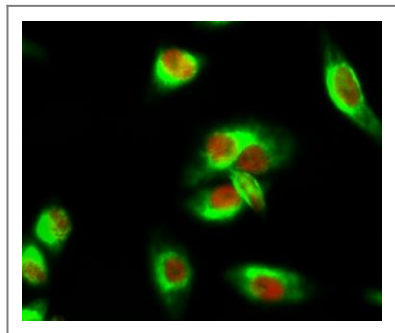
## Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti- MEK1/2 (ANT0033R) antibody. The HRPconjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: Hela Lane 2: C6 Lane 3: 3T3-L1 Lane 4: K562 Predicted band size: 44kDa Observed band size: 44kDa  
Human lung carcinoma was stained with anti-MEK1/2 (ANT0033R) rabbit antibody



Mouse colon was stained with anti-MEK1/2 (ANT0033R) rabbit antibody



Immunofluorescence analysis of HeLa cell. 1, MEK-1/2 Antibody (red) was diluted at 1:200 (4° overnight). CY5 Monoclonal Antibody (4B10) (green) was diluted at 1:200 (4° overnight). 2, Goat Anti Rabbit Alexa Fluor 594 Catalog: RS3611 was diluted at 1:1000 (room temperature, 50min). Goat Anti Mouse Alexa Fluor 488 Catalog: RS3208 was diluted at 1:1000 (room temperature, 50min).

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