MEK1 (PT0580R) PT® Rabbit mAb

CatalogNo: YM8478 Recombinant

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat,

Applications
- WB,IHC,IF,IP,ELISA

MW
- 43kD (Calculated)

43kD (Observed)

Isotype
- IgG,Kappa

Recommended Dilution Ratios

IHC 1:2000-1:5000
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)
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA

Basic Information

Clonality	Monoclonal
Clone Number	PT0580R

Immunogen Information

Specificity	Endogenous

Target Information

Gene name MAP2K1

Protein Name Dual specificity mitogen-activated protein kinase kinase 1

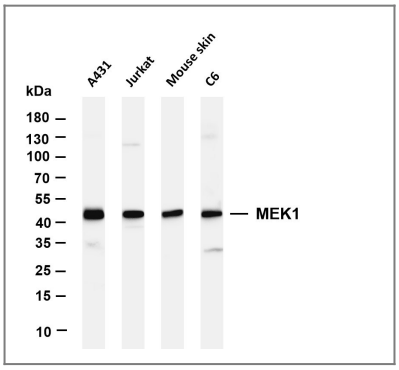
Organism	Gene ID	UniProt ID
Human	5604;	Q02750;
Mouse	26395;	P31938;
Rat	170851;	Q01986;

Cellular Localization Cytoplasm, Nucleus

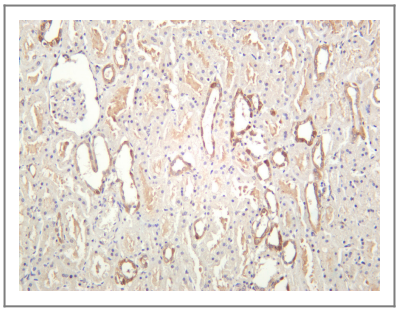
Tissue specificity Widely expressed, with extremely low levels in brain.

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.,PTM: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.,

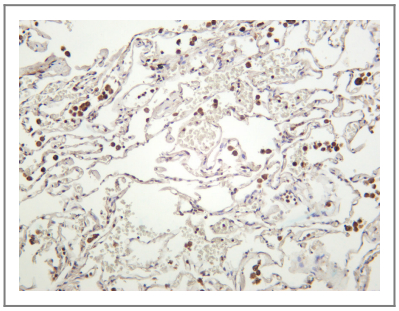
Validation Data



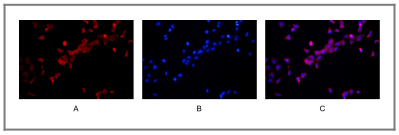
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-MEK1 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: A431 Lane 2: Jurkat Lane 3: Mouse skin Lane 4: C6 Predicted band size: 43kDa Observed band size: 43kDa



Human kidney was stained with anti-MEK1 rabbit antibody



Human lung was stained with anti-MEK1 rabbit antibody



Immunofluorescence analysis of HEK293. Picture A: MEK1 antibody (red). Picture B: DAPI (blue). Picture C: Merge of A+B

Contact information

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Please scan the QR code to access additional product information:
MEK1 (PT0580R) PT® Rabbit mAb