

## ERK2 & 1 protein

Catalog No: YD0027

Reactivity: Human

**Applications:** WB;SDS-PAGE

Gene Name: MAPK1/MAPK3

Protein Name: ERK2 & 1 protein

**Sequence:** Amino acid: 146-210, with his-MBP tag.

P27361/P28482

**Human Gene Id:** 5595/5594

**Human Swiss Prot** 

No:

Formulation: Liquid in PBS

Source: E.coli

**Dilution:** WB 1:500-2000

**Concentration:** SDS-PAGE >90%

**Storage Stability:** -20°C/6 month,-80°C for long storage

**Background:** catalytic activity:ATP + a protein = ADP + a

phosphoprotein.,cofactor:Magnesium.,domain:The TXY motif contains the threonine and tyrosine residues whose phosphorylation activates the MAP kinases.,enzyme regulation:Activated by tyrosine phosphorylation in response to insulin and NGF.,function:Involved in both the initiation and regulation of meiosis, mitosis, and postmitotic functions in differentiated cells by phosphorylating a number of transcription factors such as ELK-1. Phosphorylates EIF4EBP1; required for initiation of translation. Phosphorylates microtubule-associated protein 2 (MAP2). Phosphorylates SPZ1 (By similarity). Phosphorylates heat shock factor protein 4 (HSF4).,PTM:Dually phosphorylated on Thr-202 and Tyr-204, which activates the enzyme.,similarity:Belongs to the protein kinase superfamily.,similarity:Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MAP kinase subfamily.,similarity:Contains 1 protein kinase



domain.,subunit:Interacts with MORG1 (By similarity). Binds to HIV-1 Nef. This interaction inhibits its kinase activity. Interacts with HSF4 and NISCH.,

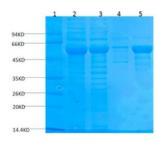
**Function:** 

protein amino acid phosphorylation, phosphorus metabolic process, phosphate metabolic process, cell cycle,intracellular signaling cascade, small GTPase mediated signal transduction, Ras protein signal transduction,phosphorylation,

Subcellular Location:

Cytoplasm . Nucleus. Membrane, caveola . Cell junction, focal adhesion . Autophosphorylation at Thr-207 promotes nuclear localization (PubMed:19060905). PEA15-binding redirects the biological outcome of MAPK3 kinase-signaling by sequestering MAPK3 into the cytoplasm (By similarity). .

## **Products Images**



1: Marker 2: F135柱前 3: F135穿遗 4: 洗股液1 5: 洗股液2 分子量: 60KD 级冲液: 1xPBS (含咪唑洗脱液和甘油)