

## ERK2 &amp; 1 protein

<b>Catalog No :</b>	YD0027
<b>Reactivity :</b>	Human
<b>Applications :</b>	WB;SDS-PAGE
<b>Gene Name :</b>	MAPK1/MAPK3
<b>Protein Name :</b>	ERK2 & 1 protein
<b>Sequence :</b>	Amino acid: 146-210, with his-MBP tag.
<b>Human Gene Id :</b>	5595/5594
<b>Human Swiss Prot No :</b>	P27361/P28482
<b>Formulation :</b>	Liquid in PBS
<b>Source :</b>	E.coli
<b>Dilution :</b>	WB 1:500-2000
<b>Concentration :</b>	SDS-PAGE >90%
<b>Storage Stability :</b>	-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). .

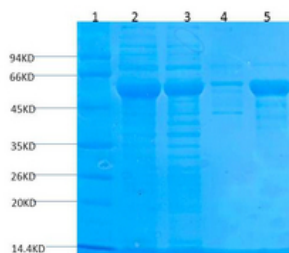
**Sort :**

991

**Host :**

Rabbit

## Products Images



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