

**ERK3 protein**

<b>Catalog No :</b>	YD0029
<b>Reactivity :</b>	Human
<b>Applications :</b>	WB;SDS-PAGE
<b>Gene Name :</b>	MAPK6
<b>Protein Name :</b>	ERK3 protein
<b>Sequence :</b>	Amino acid: 299-526, with his-MBP tag.
<b>Human Gene Id :</b>	5597
<b>Human Swiss Prot No :</b>	Q16659
<b>Mouse Swiss Prot No :</b>	Q61532
<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
<b>Background :</b>	<p>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 threonine and tyrosine phosphorylation.,function:Phosphorylates microtubule-associated protein 2 (MAP2). May promote entry in the cell cycle.,PTM:Dually phosphorylated on Thr-626 and Tyr-628, which activates the enzyme.,similarity:Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MAP kinase subfamily.,similarity:Contains 1 protein kinase domain.,tissue specificity:Highest expression in the skeletal muscle, followed by the brain. Also found in heart, placenta, lung, liver, pancreas, kidney and skin fibroblasts.,</p>

**Function :** protein amino acid phosphorylation, phosphorus metabolic process, phosphate metabolic process, cell cycle,phosphorylation,

**Subcellular Location :** Cytoplasm . Nucleus . Translocates to the cytoplasm following interaction with MAPKAPK5. .

**Expression :** Highest expression in the skeletal muscle, followed by the brain. Also found in heart, placenta, lung, liver, pancreas, kidney and skin fibroblasts.

## Products Images

