



ERK 1/2 Polyclonal Antibody

Catalog No	BYab-14739	
Isotype	IgG	
Reactivity	Human;Mouse;Rat	
Applications	IF;WB;IHC;ELISA,ChIP	
Gene Name	MAPK1/MAPK3	
Protein Name	Mitogen-activated protein kinase 3	
Immunogen	The antiserum was produced against synthesized peptide derived from human p44/42 MAPK. AA range:330-379	
Specificity	ERK 1/2 Polyclonal Antibody detects endogenous levels of ERK 1/2 protein.	
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.	
Source	Polyclonal, Rabbit,IgG	
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.	
Dilution	IF: 1:50-200 Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications.	
Concentration	1 mg/ml	
Purity	≥90%	
Storage Stability	-20°C/1 year	
Synonyms	MAPK1; ERK2; PRKM1; PRKM2; Mitogen-activated protein kinase 1; MAP kinase 1; MAPK 1; ERT1; Extracellular signal-regulated kinase 2; ERK-2; MAP kinase isoform p42; p42-MAPK; Mitogen-activated protein kinase 2; MAP kinase 2; MAPK 2; MAPK3; MAPK3; ERK1; PRKM3; Mitogen-activated protein kinase 3; MAPK 2; MAPK 3; ERT2; Extracellular signal-regulated kinase 1; ERK-1; Insulin-stimulated MAP2 kinase; MAP kinase isoform p44; p44-MAPK; Microtubule-associated protein 2 kinase; p	
Observed Band	42,44kD	
Cell Pathway	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).	
Tissue Specificity	Epithelium,Eye,Hepatoma,Human cervix,Lymph,	

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Function	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 kinas	
Background	The protein encoded by this gene is a member of the MAP kinase family. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act in a signaling cascade that regulates various cellular processes such as proliferation, differentiation, and cell cycle progression in response to a variety of extracellular signals. This kinase is activated by upstream kinases, resulting in its translocation to the nucleus where it phosphorylates nuclear targets. Alternatively spliced transcript variants encoding different protein isoforms have been described. [provided by RefSeq, Jul 2008],	
matters needing attention	Avoid repeated freezing and thawing!	
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.	

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Products Images		
D SiHa miRNC miR423-3p inh-NC inh-623-3p GAPCH PTP4A1 PTP4A1 PERK PERK GAPCH	Li, X., Ma, N., Zhang, Y. et al. Circular RNA circNRIP1 promotes migration and invasion in cervical cancer by sponging miR-629-3p and regulating the PTP4A1/ERK1/2 pathway. Cell Death Dis 11, 399 (2020).	
E Time (min) 0 30 60 90 120 p-ERK ERK p-AKT AKT	Yan, Qian, et al. "ANGPTL1 Interacts with integrin α1β 1 to suppress HCC angiogenesis and metastasis by inhibiting JAK2/STAT3 signaling." Cancer research (2017): canres-0579.	
Telekin µmol/L 0 5 10 15 ERK Phospho-ERK	Li, Lin, et al. "Telekin suppresses human hepatocellular carcinoma cells in vitro by inducing G 2/M phase arrest via the p38 MAPK signaling pathway." Acta Pharmacologica Sinica 35.10 (2014): 1311.	
ERK GAPDH	Wang, Xinzhao, et al. "Ad-p53 enhances the sensitivity of triple-negative breast cancer MDA-MB-468 cells to the EGFR inhibitor gefitinib." Oncology reports 33.2 (2015): 526-532.	
p-ERK1/2 ERK1/2 β-actin	Xu, Yini, et al. "Inhibitory effects of oxymatrine on TGF- β 1-induced proliferation and abnormal differentiation in rat cardiac fibroblasts via the p38MAPK and ERK1/2 signaling pathways." Molecular medicine reports 16.4 (2017): 5354-5362.	

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