

产品名称: ERK1/2(1H4)Mouse Monoclonal Antibody
产品货号: AMM10602



产品概述 (Summary)

产品名称 (Production Name)	ERK1/2(1H4)Mouse Monoclonal Antibody
描述 (Description)	Mouse monoclonal Antibody
宿主 (Host)	Mouse
应用 (Application)	WB,IHC,ICC/IF
种属反应性 (Reactivity)	Human,Rat,Mouse,Fish

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Monoclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	MAPK1/MAPK3
别名 (Alternative Names)	MAPK1/MAPK3
基因 ID (Gene ID)	5594/5595
蛋白 ID (SwissProt ID)	P27361/P28482.Synthetic Peptide of ERK1/2 at AA range of 140-220

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:1000-1:2000,IHC 1:100-1:200,ICC/IF 1:50-1:200
蛋白分子量 (Molecular Weight)	44,42kDa

研究背景 (Background)

The protein encoded by this gene is a member of the MAP kinase family. MAP kinases, also known as extracellular signal-

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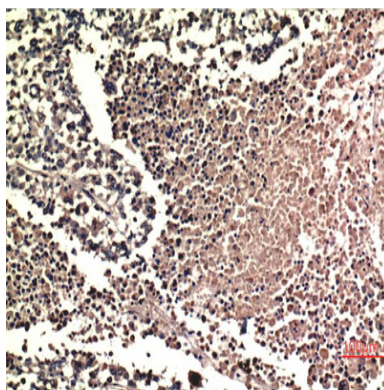


regulated kinases (ERKs), act in a signaling cascade that regulates various cellular processes such as proliferation, differentiation, and cell cycle progression in response to a variety of extracellular signals. This kinase is activated by upstream kinases, resulting in its translocation to the nucleus where it phosphorylates nuclear targets. Alternatively spliced transcript variants encoding different protein isoforms have been described. [provided by RefSeq, Jul 2008], 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.,

研究领域 (Research Area)

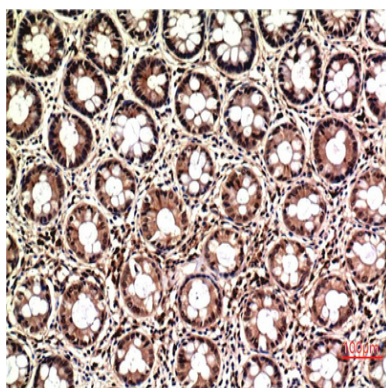
MAPK_ERK_Growth; MAPK_G_Protein; ErbB_HER; Chemokine; Oocyte meiosis; mTOR; Vascular smooth muscle contraction; Dorso-ventral axis formation; TGF-beta; Axon guidance; VEGF; Focal adhesion; Adherens_Junction; Gap junction; Toll_Like; NOD-like receptor; Natural killer cell mediated cytotoxicity; T_Cell_Receptor; B_Cell_Antigen; Fc epsilon RI; Fc gamma R-mediated phagocytosis; Long-term potentiation; Neurotrophin; Long-term depression; Regulates Actin and Cytoskeleton; Insulin_Receptor; GnRH; Progesterone-mediated oocyte maturation; Melanogenesis; Type II diabetes mellitus; Aldosterone-regulated sodium reabsorption; Alzheimer's disease; Prion diseases; Pathways in cancer; Colorectal cancer; Renal cell carcinoma; Pancreatic cancer; Endometrial cancer; Glioma; Prostate cancer; Thyroid cancer; Melanoma; Bladder cancer; Chronic myeloid leukemia; Acute myeloid leukemia; Non-small cell lung cancer;

图片 (Image Data)

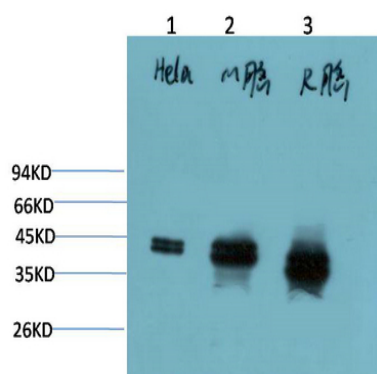


Immunohistochemical analysis of paraffin-embedded Human Lung Carcinoma Tissue using ERK1/2 Mouse mAb diluted at 1:200.

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Immunohistochemical analysis of paraffin-embedded Human Colon Carcinoma Tissue using ERK1/2 Mouse mAb diluted at 1:200.



Western blot analysis of 1) Hela Cell Lysate, 2) Mouse Brain Tissue Lysate, 3) Rat Brain Tissue Lysate using ERK1/2 Mouse mAb diluted at 1:2000.

注意事项 (Note)

For research use only .