

产品名称: p44/42 MAPK (Erk1/2) Mouse Monoclonal Antibody
产品货号: AMM80822



产品概述 (Summary)

产品名称 (Production Name)	p44/42 MAPK (Erk1/2) Mouse Monoclonal Antibody
描述 (Description)	Mouse monoclonal Antibody
宿主 (Host)	Mouse
应用 (Application)	WB,IHC,ICC,ELISA,FC
种属反应性 (Reactivity)	Human,Mouse,Rabbit

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	Mouse IgG2b
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)	PBS containing 0.03% sodium azide.
纯化方式 (Purification)	Affinity Purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	MAPK (Erk1/2)
别名 (Alternative Names)	ERK; p38; p40; p41; ERK2; ERT1; MAPK2; PRKM1; PRKM2; P42MAPK; p41mapk; MAPK1
基因 ID (Gene ID)	5594.0
蛋白 ID (SwissProt ID)	P28482.Purified recombinant fragment of human MAPK expressed in E. Coli.

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:100-1:500,ICC 1:50-1:500,ELISA 1:5000-1:20000,FC 1:200-1:400
蛋白分子量 (Molecular Weight)	42 , 44kDa

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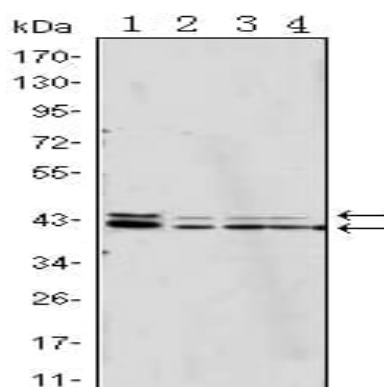
研究背景 (Background)

Mitogen-activated protein kinases (MAPKs) are a widely conserved family of serine/threonine protein kinases involved in many cellular programs such as cell proliferation, differentiation, motility, and death. The p44/42 MAPK (Erk1/2) signaling pathway can be activated in response to a diverse range of extracellular stimuli including mitogens, growth factors, and cytokines and is an important target in the diagnosis and treatment of cancer. Upon stimulation, a sequential three-part protein kinase cascade is initiated, consisting of a MAP kinase kinase kinase (MAPKKK or MAP3K), a MAP kinase kinase (MAPKK or MAP2K), and a MAP kinase (MAPK). Multiple p44/42 MAP3Ks have been identified, including members of the Raf family as well as Mos and Tpl2/Cot. MEK1 and MEK2 are the primary MAPKKs in this pathway. MEK1 and MEK2 activate p44 and p42 through phosphorylation of activation loop residues Thr202/Tyr204 and Thr185/Tyr187, respectively. Several downstream targets of p44/42 have been identified, including p90RSK and the transcription factor Elk-1. p44/42 are negatively regulated by a family of dual-specificity (Thr/Tyr) MAPK phosphatases, known as DUSPs or MKPs, along with MEK inhibitors such as U0126 and PD98059.

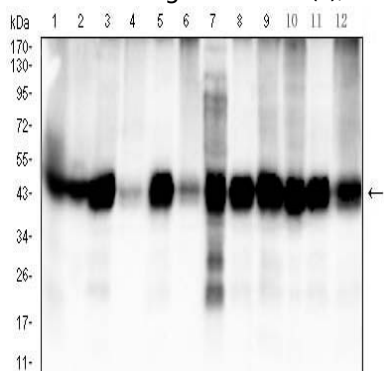
研究领域 (Research Area)

Apoptosis, TGF-beta signaling pathway, PI3K-Akt signaling pathway, MAPK signaling pathway, Jak-STAT signaling pathway

图片 (Image Data)



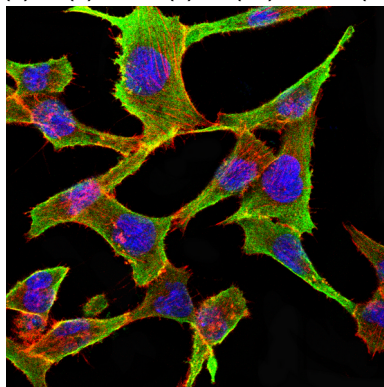
Western blot analysis using p44/42 MAPK mouse mAb against Jurkat (1), Hela (2), A431 (3) and NIH/3T3 (4) cell lysate.



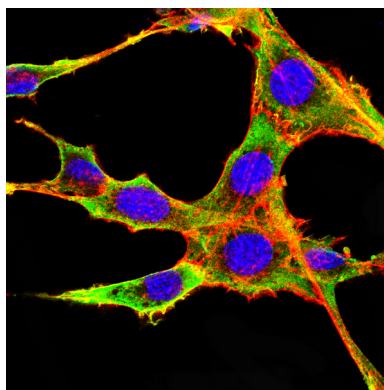
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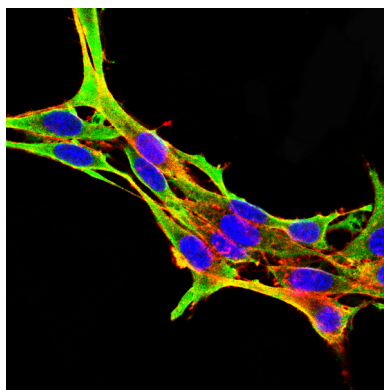
Western blot analysis using p44/42 MAPK (Erk1/2) mouse mAb against Rat liver(1)mouse liver (2) PC-12(3) Raw264.7 (4) NIH/3T3(5) NRK(6) C2C12(7) C6(8) L1210(9) F9 (10) COS-7 (11) CHO3D10(12) cell lysate.



Immunofluorescence analysis of COS7 cells using p44/42 MAPK (Erk1/2) mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

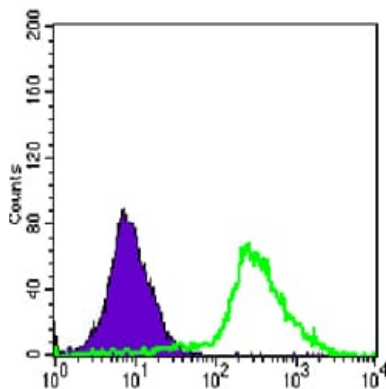


Immunofluorescence analysis of NIH/3T3 cells using p44/42 MAPK (Erk1/2) mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

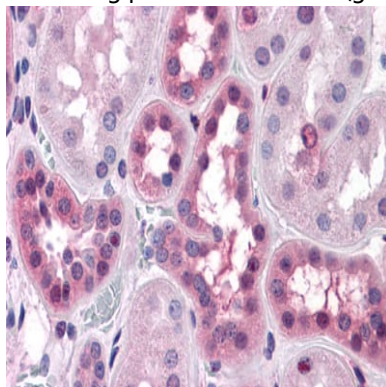


Immunofluorescence analysis of PC-12 cells using p44/42 MAPK (Erk1/2) mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

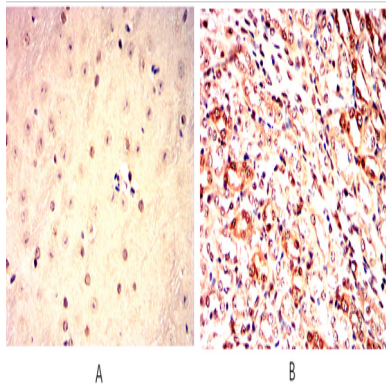
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Flow cytometric analysis of Jurkat cells using p44/42 MAPK mAb (green) and negative control (purple).

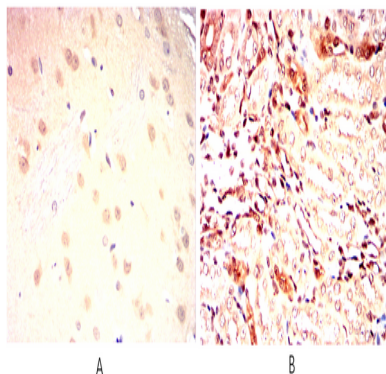


Immunohistochemical analysis of paraffin-embedded human Liver tissues using anti p44/42 MAPK (Erk1/2) mouse mAb



Immunohistochemical analysis of paraffin-embedded Mouse brain(A) Mouse kidney(B) using p44/42 MAPK (Erk1/2) mouse mAb with DAB staining.

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Immunohistochemical analysis of paraffin-embedded Rat liver(A)Rat kidney(B) using p44/42 MAPK (Erk1/2) mouse mAb with DAB staining.

注意事项 (Note)

For research use only .