

Mouse Monoclonal Antibody to p44/42 MAPK (Erk1/2)

Order Information

Catalog#	30014	
Size/Concentration	100µl	50µl
Price(¥)	2180	1280

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Description

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 (MAP3K or MAP3K), a MAP kinase kinase (MAP2K 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 MAP2Ks 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.

Specification

Aliases : ERK; p38; p40; p41; ERK2; ERT1; MAPK2; PRKM1; PRKM2; P42MAPK; p41mapk; MAPK1

Entrez GeneID : 5594

Swissprot : P28482

clone : 3F8

WB Predicted band size : 42kDa

Host/Isotype : Mouse IgG2b

Storage : Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Species Reactivity : Human, Mouse

Immunogen : Purified recombinant fragment of human MAPK expressed in E. Coli.

Formulation : Ascitic fluid containing 0.03% sodium azide.

Application

WB	1/500 - 1/2000
IHC	1/200 - 1/1000
FCM	1/200 - 1/400
ELISA	1/10000

References

1. FEBS Lett. 1992 Jun 15;304(2-3):170-8.
2. Proc Natl Acad Sci U S A. 1995 Jun 6;92(12):5361-5.
3. J Biol Chem. 2009 Nov 27;284(48):33456-65.
4. BMC Biol. 2009 Oct 27;7:70.

Protocol

WB - www.promab.com/protocol/wb.html

IHC - www.promab.com/protocol/ihc.html

ICC - www.promab.com/protocol/icc.html

HCM - www.promab.com/protocol/hcm.html

Antigen Sequence is available upon request.

Products and Services

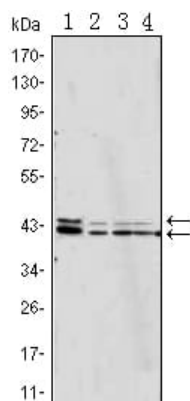
- Mouse Monoclonal Antibody
- Rat Monoclonal Antibody
- Human Antibody
- Hybridoma Sequencing
- Polyclonal Antibody

For Research Only

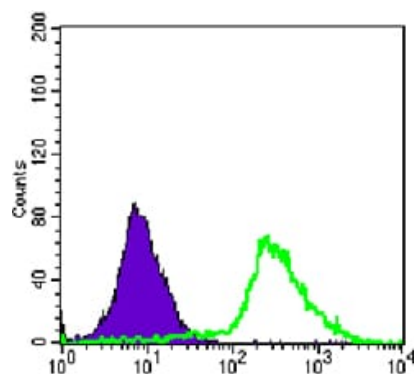
Application Key: WB - Western Blot | IHC - Immunohistochemistry | ICC - Immunocytochemistry | FCM - Flow Cytometry | ELISA - Enzyme-linked Immunosorbent Assay | IP - Immunoprecipitation

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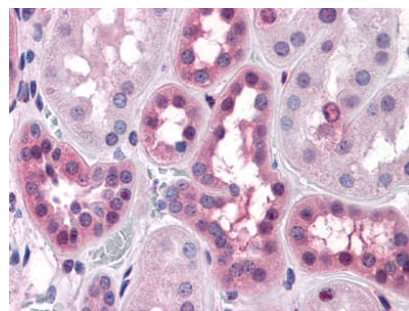
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Western blot analysis using p44/42 MAPK mouse mAb against Jurkat (1), HeLa (2), A431 (3) and NIH/3T3 (4) cell lysate.



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-BHMT mouse mAb

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