



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

E10-30014

**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.

**Catalog Number:** E10-30014

**Amount:** 100µg/100µl

**Clone Number:** 3F8

**Species:** Mouse IgG1

**MW** 42kDa

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

**Entrez Gene:** 5594

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

**Storage:** Store at 4°C, for long term storage, store at -20°C.

**Formulation:** Ascitic fluid containing 0.03% sodium azide.

**Species Reactivities:** Human; Mouse

**Tested Applications:** WB, IHC, FC, ELISA. Not yet tested in other applications.

**Application notes:** WB: 1/500 - 1/2000, IHC: 1/200-1/1000, FC: 1/200-1/400, ELISA: Propose dilution 1/10000.

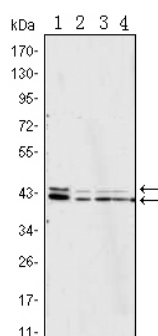


Figure 1: Western blot analysis using p44/42 MAPK mouse mAb against Jurkat (1), Hela (2), A431 (3) and NIH/3T3 (4) cell lysate.

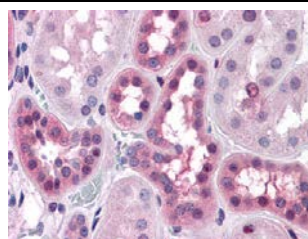


Figure 2: Immunohistochemical analysis of paraffin-embedded human Liver tissues using anti-BHMT mouse mAb

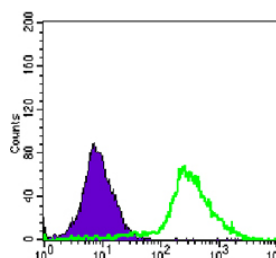


Figure 3: Flow cytometric analysis of Jurkat cells using p44/42 MAPK mAb (green) and negative control (purple).

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