

**ERK1/2 (Phospho-T202/Y204) Rabbit monoclonal antibody**

Catalog: MB66339

Host: Rabbit

Reactivity: Human, Rat

**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 research investigators consider it 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.

**Product:**

Liquid in 50mM Tris-Glycine (pH 7.4), 0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA.

**Molecular Weight:**

~ 42, 44 kDa

**Swiss-Prot:**

P27361; P28482

**Purification&Purity:**

The antibody was purified by immunogen affinity chromatography.

**Applications:**

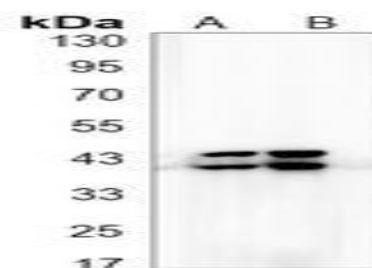
WB (1/500 - 1/1000), IP (1/10 - 1/50)

**Storage&Stability:**

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

**Specificity:**

Recognizes endogenous levels of ERK1/2 (pT202/Y204) protein.

**DATA:**

Western blot analysis of ERK1/2 (pT202/Y204) expression in C6 (A), HeLa (B) whole cell lysates.

**Note:**

For research use only, not for use in diagnostic procedure.

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