Monoclonal Antibody to MAPK3 / ERK1 - Purified

Alternate names: ERK-1, ERT2, Extracellular signal-regulated kinase 1, Insulin-stimulated MAP2 kinase, MAP kinase 3, MAP kinase isofrom p44, MAPK 3, Microtubule-associated protein 2 kinase, Mitogen-activated protein kinase 1, Mitogen-activated protein kinase 3, PRKM3, p44-ERK1, p44-MAPK

Catalog No.: AM09379PU-N
Quantity: 0.1 ml
Concentration: 1.0 mg/ml

Background: Mitogen-activated protein kinase (MAPKs) are a widely conserved family of serine/threonine kinase involved in many cellular programs such as cell proliferation, differentiation, motility, and death. MAPK3 (ERK1) signaling pathway can be activated in response to a diverse range of extracellular stimuli including mitogens, growth factors, and cytokines and is on 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), a MAP kinase kinase (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.

Uniprot ID: P27361
NCBI: NP_002737
GeneID: 5595
Host / Isotype: Mouse / IgG2b
Recommended Isotype Controls: SM12P, AM03110PU-N
Clone: AT1A2
Immunogen: Recombinant human MAPK3 protein (1-137aa) purified from E. coli

Format: State: Liquid purified Ig fraction
Purification: Protein-G affinity chromatography
Buffer System: PBS, pH 7.4, containing 0.09% sodium azide

Applications: ELISA.
Western blot (1:250 - 1:500).
Immunofluorescence (1:250 - 1:500).
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
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**Specificity:**
The antibody recognizes human MAPK3. Other species not tested.

**Species:**
Human
Other species not tested.

**Storage:**
Store the antibody undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

**General Readings:**

**Pictures:**

**Western blot analysis:**
Cell lysates of HepG2 (35 ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human MAPK3 (1:500). To determine specificity of anti-human MAPK3 antibody, western blot was performed using the MAPK1 and MAPK3 recombinant proteins (50ng). Proteins were visualized using a goat anti-mouse antibody.

**Immunofluorescence** of HeLa cells stained with Hoechst 3342 (Blue) for nucleus staining and monoclonal anti-human MAPK3 antibody (1:500) with Texas Red (Red).