

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 isoform 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-S
Quantity:	50 µl
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 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.
Uniprot ID:	P27361
NCBI:	NP_002737
GenID:	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.

For research and in vitro use only. Not for diagnostic or therapeutic work.

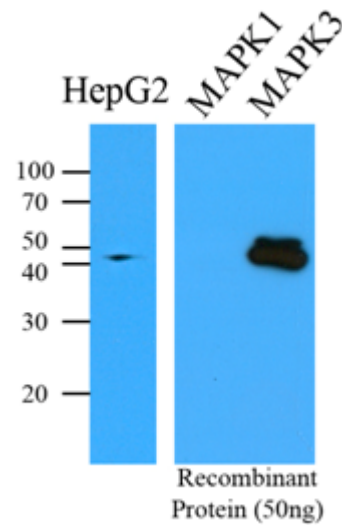
Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com



- 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:** Meloche S, et al., *Oncogene* (2007) 26:3227-39.
Raman M, et al., *Oncogene* (2007) 26:3100-12.
Roberts PJ, et al., *Oncogene* (2007) 26:3291-310.
Shaul YD, et al., *Seeger R. Acta* (2007) 1773:1213-26.

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).

