

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product datasheet for TA500473M

ERK2 (MAPK1) Mouse Monoclonal Antibody [Clone ID: OTI7C9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI7C9
Applications:	IF, IP, WB
Recommended Dilution:	WB 1:2000, IF 1:100, IP 2-4ug/mg
Reactivity:	Human, Dog, Rat, Monkey, Mouse
Host:	Mouse
lsotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human MAPK1(NP_620407) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	41.4 kDa
Gene Name:	mitogen-activated protein kinase 1
Database Link:	<u>NP 620407</u> Entrez Gene 26413 MouseEntrez Gene 116590 RatEntrez Gene 477575 DogEntrez Gene 698569 MonkeyEntrez Gene 5594 Human <u>P28482</u>



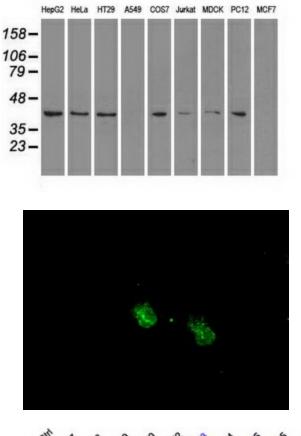
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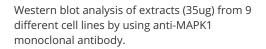
	ERK2 (MAPK1) Mouse Monoclonal Antibody [Clone ID: OTI7C9] – TA500473M
Background:	The protein encoded by this gene is a member of the MAP kinase family. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. The activation of this kinase requires its phosphorylation by upstream kinases. Upon activation, this kinase translocates to the nucleus of the stimulated cells, where it phosphorylates nuclear targets. Two alternatively spliced transcript variants encoding the same protein, but differing in the UTRs, have been reported for this gene.
Synonyms:	ERK; ERK-2; ERK2; ERT1; MAPK2; NS13; p38; p40; p41; p41mapk; p42-MAPK; P42MAPK; PRKM1; PRKM2
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathway	Acute myeloid leukemia, Adherens junction, Alzheimer's disease, Axon guidance, B cell receptor signaling pathway, Bladder cancer, Chemokine signaling pathway, Chronic myeloid leukemia, Colorectal cancer, Dorso-ventral axis formation, Endometrial cancer, ErbB signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Focal adhesion, Gap junction, Glioma, GnRH signaling pathway, Insulin signaling pathway, Long- term depression, Long-term potentiation, MAPK signaling pathway, Melanogenesis, Melanoma, mTOR signaling pathway, Natural killer cell mediated cytotoxicity, Neurotrophin signaling pathway, NOD-like receptor signaling pathway, Non-small cell lung cancer, Oocyte meiosis, Pancreatic cancer, Pathways in cancer, Prion diseases, Progesterone-mediated oocyte maturation, Prostate cancer, Regulation of actin cytoskeleton, Renal cell carcinoma, T cell receptor signaling pathway, TGF-beta signaling pathway, Thyroid cancer, Toll-like receptor signaling pathway, Type II diabetes mellitus, Vascular smooth muscle contraction, VEGF signaling pathway

Product images:

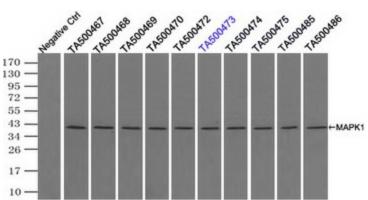
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY MAPK1 ([RC204703], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MAPK1. Positive lysates [LY408481] (100ug) and [LC408481] (20ug) can be purchased separately from OriGene.

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Anti-MAPK1 mouse monoclonal antibody ([TA500473]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY MAPK1 ([RC204703]).



Immunoprecipitation of MAPK1 by using TrueMab monoclonal anti-MAPK1 antibody (Negative control: IP without adding anti-MAPK1 antibody). For each experiment, 500ul of DDK tagged MAPK1 overexpression lysates (at 1:5 dilution with HEK293T lysate), 2ug of anti-MAPK1 antibody and 20ul (0.1mg) of goat anti-mouse conjugated magnetic beads were mixed and incubated overnight. After extensive wash to remove any non-specific binding, the immunoprecipitated products were analyzed with rabbit anti-DDK polyclonal antibody.

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