

Product datasheet for TA389128

MAPK1 Mouse Antibody [Clone ID: M233]

Product data:

Product Type: Primary Antibodies

Clone Name: M233

Applications: ICC, IHC, WB **Recommended Dilution: WB**: 1:1000

ICC: 1:100

Reactivity: Human, Rat, Mouse

Host: Mouse Isotype: IgG1

Immunogen: Clone (M233) was generated from a recombinant human ERK1 protein that included amino

acids residues in the C-terminal region. This sequence is conserved in rat and mouse ERK1,

and has low homology to ERK2, as well as other ERK family members.

Specificity: The antibody detects a 44 kDa* protein corresponding to ERK1 on SDS-PAGE immunoblots of

human A431 epithelial cells. It does not detect ERK2.

Formulation: PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol

Concentration: lot specific

Purification: Protein A Purified

Conjugation: Unconjugated

Storage: Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to

presence of 50% glycerol. Stable for at least 1 year at -20°C.

Stability: After date of receipt, stable for at least 1 year at -20°C.

Predicted Protein Size: 44

Database Link: P28482



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



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 ERK1/2 (p44/42) signaling pathway can be activated in response to a diverse range of extracellular stimuli including mitogens, growth factors, and cytokines. Upon stimulation, a sequential three-part protein kinase cascade is initiated, consisting of a MAP kinase kinase kinase (MAPKKK), a MAP kinase kinase (MAPKK), and a MAP kinase (MAPK). Multiple ERK1/2 MAPKKKs 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 ERK1 and ERK2 through phosphorylation of activation loop residues Thr-202/Tyr-204 and Thr-185/Tyr-187, respectively. ERK1/2 are negatively regulated by a family of dual-specificity (Thr/Tyr) MAPK phosphatases. Several downstream targets of ERK1/2 have been identified, including p90RSK and the transcription factor Elk-1.

Note:

Protein G purified tissue culture supernatant.