

Monoclonal Antibody to ERK1 / ERK2 - Purified

Alternate names:	ERK-1/ERK-2, MAPK1/MAPK2, P42/P44-MAPK
Catalog No.:	AM20636PU-N
Quantity:	0.1 mg
Concentration:	0,1 mg/ml (after reconstitution with PBS)
Background:	In mammalian cells, a variety of extracellular stimuli generate intracellular signals that converge on a limited number of so-called mitogen-activated protein (MAP) kinase pathways. The central core of each MAP kinase (MAPK) pathway is a conserved cascade of 3 protein kinases: an activated MAPK kinase kinase (MAPKKK) phosphorylates and activates a specific MAPK kinase (MAPKK), which then activates a specific MAPK. Mek1/2 MAPK kinases are essential for mammalian development, homeostasis, and Raf-induced hyperplasia. Germline mutations in genes within the MAPK pathway cause cardio-facio-cutaneous syndrome.
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), SM20P (for use in rat samples), AM03095PU-N
Clone:	IL-13
Format:	State: Lyophilized purified Ig fraction Purification: Affinity chromatography Buffer System: 1.2 % sodium acetate, with 2 mg BSA and 0.01 mg sodium azide as preservative. Reconstitution: Restore with 1.2% sodium acetate or neutral PBS
Applications:	Western Blot: 0.25 - 0.5 µg/ml. Immunohistochemistry on paraffin sections: 0.4 - 1 µg/ml. Immunocytochemistry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody reacts to ERK1 / ERK2. Species: Human, Mouse, Rat, Yeast. Other species not tested.
Storage:	Prior to reconstitution store at -20°C. Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Rodriguez-Viciana P, Tetsu O, Tidyman WE, Estep AL, Conger BA, Cruz MS, et al. Germline mutations in genes within the MAPK pathway cause cardio-facio-cutaneous syndrome.

Science. 2006 Mar 3;311(5765):1287-90. Epub 2006 Jan 26. PubMed PMID: 16439621.
2. Scholl FA, Dumesic PA, Barragan DI, Harada K, Bissonauth V, Charron J, et al. Mek1/2 MAPK kinases are essential for Mammalian development, homeostasis, and Raf-induced hyperplasia. Dev Cell. 2007 Apr;12(4):615-29. PubMed PMID: 17419998.