

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850 UNITED STATES Phone: +1-888-267-4436 Fax: +1-301-340-8606 techsupport@origene.com

OriGene Technologies GmbH

32052 Herford GERMANY Phone: +49-5221-34606-0 Fax: +49-5221-34606-11 info-de@origene.com

Schillerstr. 5

AP02742PU-N Polyclonal Antibody to ERK1 / ERK2 - Aff - Purified

Alternate names: ERK-1/ERK-2, Extracellular signal regulated kinase 1/2, Insulin stimulated MAP2

kinase, MAPK1/MAPK2, Microtubule associated protein 2 kinase, Mitogen activated

protein kinase 1/2/3, P42/P44-MAPK

Quantity: 0.1 mg
Concentration: 1.0 mg/ml

Both p44 and p42 MAP kinases (Erk1 and Erk2) function in a protein kinase cascade

that plays a critical role in the regulation of cell growth and differentiation. Activation of MAP kinases occurs through phosphorylation of threonine and tyrosine (202 and 204 of human MAP kinase [Erk1] or 183 and 185 of rat Erk2) at the sequence T*EY* by a

single upstream MAP kinase kinase (MEK). Both kinases are known to weakly

autophosphorylate on tyrosine.

Host: Rabbit

Immunogen: The antiserum was produced against synthesized non-phosphopeptide derived from

human p44/42 MAP Kinase around the phosphorylation site of tyrosine 204 (T-E-YP-V-

A).

Format: State: Liquid purified IgG

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Buffer System: PBS(without Mg2+ and Ca2+), pH 7.4 containing 150mM NaCl, 0.02%

sodium azide and 50% glycerol

Applications: Western Blot: 1:500~1:1000.

Other applications not tested. Optimal dilutions are dependent on conditions and

should be determined by the user.

Specificity: p44/42 MAP Kinase antibody detects endogenous levels of total p44/42 MAP Kinase

protein.

Species: Human, Mouse, Rat. Other species not tested.

Storage: Store the antibody at -20°C.

Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings: 1. TETE HANNKEN, et al. (2000) Am Soc Nephrol 11:1387-1397

2. Omar D. PerezNature et al. (2002) Biotechnology 20: 155 - 162

3. Jingui Yu, et al. (2005) Anesth Analg 101: 315-321 4. Hironobu Ihn et al.(2000) Immunology 165: 2149-2155



Pictures:

Western blot analysis of extracts from NIH-3T3 cells, using p44/42 MAP Kinase antibody (Line 1 and 2) and p44/42 MAP Kinase (pTyr204) antibody (Line 3).

