

**AP02742PU-S****Polyclonal Antibody to ERK1 / ERK2 - Aff - Purified**

<b>Alternate names:</b>	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
<b>Quantity:</b>	50 µg
<b>Concentration:</b>	1.0 mg/ml
<b>Background:</b>	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.
<b>Host:</b>	Rabbit
<b>Immunogen:</b>	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).
<b>Format:</b>	<b>State:</b> Liquid purified IgG <b>Purification:</b> The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. <b>Buffer System:</b> PBS(without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4 containing 150mM NaCl, 0.02% sodium azide and 50% glycerol
<b>Applications:</b>	Western Blot: 1:500~1:1000. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	p44/42 MAP Kinase antibody detects endogenous levels of total p44/42 MAP Kinase protein. <b>Species:</b> Human, Mouse, Rat. Other species not tested.
<b>Storage:</b>	Store the antibody at -20°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>General Readings:</b>	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).

