

**AP00178PU-N****Polyclonal Antibody to ERK1 / ERK2 (pT-E-pY Motif) - 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>	0.1 mg
<b>Concentration:</b>	0.5 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>	Synthetic phospho-peptide surrounding Thr202/Tyr204 of human P44MAP kinase
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction <b>Buffer System:</b> PBS containing 50% Glycerol, 1% BSA as stabilizers and 0.02% Thimerosal as preservative.
<b>Applications:</b>	Western blotting (0.5-4 µg/ml). Immunoprecipitation (10-20 µg/ml). Immunohistochemistry (10-20 µg/ml). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	The antibody recognizes phosphorylated p42 and p44 (Erk1 and Erk2). <b>Species:</b> Human, Mouse and Rat. Other species not tested.
<b>Storage:</b>	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.