

## 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>Catalog No.:</b>	AP00033PU-N
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.5 mg/ml
<b>Background:</b>	The extracellular signal-regulated kinase 1 and 2 (Erk1 and Erk2) are closely related mitogen activated protein (MAP) kinases that are activated through the extracellular stimulation by many growth factors, mitogens and differentiation promoting agents via a protein kinase cascade. Erk1/2 are activated approximately 1000 fold by phosphorylation of neighbouring threonine and tyrosine residues by Mek1 and Mek2. Both sites must be phosphorylated for maximum activity. Erk1/2 kinases are ubiquitously distributed in the nervous system, as well as a broad range of cells and tissues. These two kinases represent proximal kinases in the classical MAP kinase cascade pathway which links growth and differentiation signals at the cell surface (through tyrosine kinase) with transcription in the nucleus.
<b>Host:</b>	Rabbit
<b>Immunogen:</b>	Purified cytochrome p450
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction. <b>Purification:</b> Affinity Chromatography. <b>Buffer System:</b> PBS, pH 7.2 containing 50% Glycerol, 1% BSA and 0.02% Thimerosal.
<b>Applications:</b>	Western blot: 0.5-4 µg/ml. Immunoprecipitation: 20-40 µg/ml. Immunohistochemistry: 20-40 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 42 kDa and 44 kDa of endogeneous Erk1/Erk2 (p44/p42 MAP kinase). <b>Species:</b> Human, Mouse, Rat, Sheep, Chicken and Hamster. Other species not tested.
<b>Storage:</b>	Store the antibody at -20°C For long-term storage, aliquot and freeze at -70°C. Avoid repeated freeze/thaw cycles. Shelf life: one year from despatch.

Pictures:

Western blot analysis of Erk1/2 expression in PC12 cells.

