

AP20977PU-N**Polyclonal Antibody to ERK1 / ERK2 - Aff - Purified****Alternate names:**

ERK-1/ERK-2, Extracellular signal-regulated kinase, Insulin-stimulated MAP2 kinase, MAPK1/MAPK2, Mitogen-activated protein kinase, P42/P44-MAPK

Quantity:

0.1 mg

Concentration:

1.0 mg/ml

Background:

The activation of signal transduction pathways by growth factors, hormones and neurotransmitters is mediated through two closely related MAP kinases, p44 and p42, designated extracellular-signal related kinase 1 (ERK 1) and ERK 2, respectively. ERK proteins are regulated by dual phosphorylation at specific tyrosine and Threonine sites mapping within a characteristic Thr- Glu-Tyr motif. Phosphorylation at both the Thr and Tyr residues is required for full enzymatic activation. In response to activation, MAP kinases phosphorylate downstream components on Serine and Threonine. Upstream MAP kinase regulators include MAP kinase kinase (MEK), MEK kinase and Raf-1. The ERK family has three additional members: ERK 3, ERK 5 and ERK 6.

Host:

Rabbit

Format:

State: Liquid purified Ig fraction (> 95% by SDS-PAGE)

Purification: Affinity Chromatography using epitope-specific immunogen

Buffer System: Phosphate buffered saline (PBS), pH~7.2

Preservatives: 0.05% Sodium Azide

Applications:

Immunohistochemistry on Paraffin Sections: 1/50-1/200.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Molecular Weight:

~ 42,44 kDa

Specificity:

This antibody detects endogenous levels of ERK1/2 protein.
(region surrounding Thr208)

Species Reactivity:

Tested: Human.

Expected from sequence similarity: Mouse and Rat

Storage:

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.

Pictures:

Immunohistochemistry (IHC) analyzes of ERK1/2 antibody (Cat.-No.: AP20977PU-N) in paraffin-embedded human breast carcinoma tissue.

