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**UNITED STATES** 

### OriGene EU

AP10012PU-S

## Acris Antibodies GmbH

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# Monoclonal 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

Catalog No.: AP10012PU-S

**Quantity:** 50 μl

Concentration: 4.0 mg/ml

Background: ERK (extracellular signal-regulated kinase), also known as MAPK (mitogen-activated

protein kinase) has two closely related isoforms of 44 kDa and 42 kDa, respectively. These kinases belong to a family of serine/threonine kinases that are activated upon treatment of

cells with a large variety of stimuli including mitogens, hormones, growth factors,

cytokines, and bioactive peptides. Cell stimulation induces the activation of a signalling cascade, the downstream effects of which have been linked to the regulation of cell growth and differentiation as well as the cytoskeleton. ERK 1 and ERK 2 are fully activated by phosphorylation within a Thr-Glu-Tyr motif of the activation loop on both a threonine and a tyrosine residue by MEKs (MAPK/ERK kinases), thereby greatly elevating the activity of the

ERK 1 + 2 enzymes

Host: Rabbit Clone: B20-U

Immunogen: Peptide derived from C-terminal sequence of Human Erk-2

**Format:** State: Liquid purified Ig fraction.

**Purification:** Immunoaffinity Chromatography.

Buffer System: 20 mM Tris-HCl, pH 8.0 containing 0.05% Sodium Azide as preservative and

10 mg/ml BSA as stabilizer.

Note: This antibody is aslo available without Stabilizer.

Applications: Immunohistochemistry (Frozen Sections, Fixed, Paraffin-Embedded Sections).

Immunoprecipitation. ELISA (1/20,000-1/100,000).

Western blot (1/5,000)

Wash buffer: 1x Tris Buffered Saline (TBS); 0.2% Triton X-100

Blocking buffer: 1xTBS; 0.2% Triton X-100; 8% nonfat dry milk. Incubate the membrane with

antibody diluted in blocking buffer 2 hours at room temperature.

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

be determined by the user.

Specificity: This antibody recognises Erk1,2.
Species Reactivity: Tested: Human, Mouse and Rat.

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### AP10012PU-S: Monoclonal Antibody to ERK1 / ERK2 - Aff - Purified

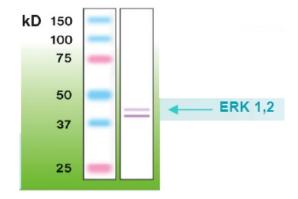
Storage: Store the antibody undiluted (in aliquots) at -20°C.

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

Pictures: Figure 1. Western blot of Erk 1,2 in Rat

brain crude lysate (100 ug of protein loaded) using Anti-Erk 1,2 (AP10012PU-N)

antibody.



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