

Anti-ERK1/2 Polyclonal Antibody

ORDERING INFORMATION

Catalog No.: 56255

Size: 100ul whole antiserum

BACKGROUND

The extracellular signal-regulated kinases 1 and 2 (ERK1/2) are members of the Mitogen Activated Protein Kinase (MAPK) family of proteins found in all eukaryotes. The 44 kDa ERK1 and the 42 kDa ERK2 are highly homologous and both function in the same protein kinase cascade, so they are referred to collectively as ERK1/2. They are both found in the cytosol and mitochondria. ERK 1 and 2 are activated by MEK1 or MEK2 by dual phosphorylation of a threonine and tyrosine residue in the activation loop. Once activated, these kinases phosphorylate a variety of substrates including cytoskeletal proteins, translation regulators, transcription factors, and the Rsk family of protein kinases. ERK1/2 activation is believed to confer a survival advantage to cells but may also contribute to cell death under certain conditions.

SPECIFICATION SUMMARY

Host Species: Rabbit

Antigen: A 35 amino acid synthetic peptide corresponding to ERK1 conjugated to KLH.

Antibody Class: Polyclonal

Preservatives: None.

SPECIFICITY

This antibody recognizes human, mouse, rat, bovine, chicken, sheep, Drosophila, and Xenopus ERK1/2.

APPLICATIONS

Immunoblotting: use at 1:5,000 dilution.

Bands of ~44 kDa (ERK1) and ~42 kDa (ERK2) are detected.

These are recommended concentrations.

User should determine optimal concentrations for their application.

Positive control: HeLa cell lysate.

DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Avoid repeated freezing and thawing.

For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.