

ERK/MAPK Antibody

Affinity purified rabbit polyclonal antibody Catalog # AN1123

Specification

ERK/MAPK Antibody - Product Information

Application WB
Primary Accession P63086
Reactivity Rat
Predicted Mouse
Host Rabbit
Clonality polyclonal
Calculated MW 42/44 KDa

ERK/MAPK Antibody - Additional Information

Gene ID 116590
Gene Name MAPK1/2

Other Names

Mitogen-activated protein kinase 1, MAP kinase 1, MAPK 1, ERT1, Extracellular signal-regulated kinase 2, ERK-2, MAP kinase isoform p42, p42-MAPK, Mitogen-activated protein kinase 2, MAP kinase 2, MAPK 2, Mapk1, Erk2, Mapk, Prkm1

Target/Specificity

Synthetic peptide corresponding to amino acid residues from the C-terminal region conjugated to KLH.

Dilution

WB~~ 1:1000

Format

Prepared from rabbit serum by affinity purification.

Antibody Specificity

Specific for the \sim 42k - 44k ERK/MAPK protein. Immunolabeling is blocked by the peptide used as antigen.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

ERK/MAPK Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

Blue Ice



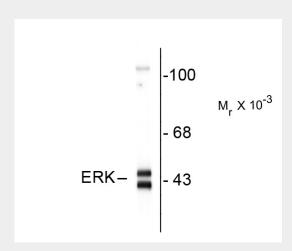
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>

ERK/MAPK Antibody - Protocols

- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

ERK/MAPK Antibody - Images



Western blot of rat hippocampal homogenate showing specific immunolabeling of the \sim 42-44k ERK/MAPK protein.

ERK/MAPK Antibody - Background

Extracellular-Signal Regulated Kinase/Mitogen-Activated Protein Kinase (ERK/MAPK) is an integral component of cellular signaling during mitogenesis and differentiation of mitotic cells and also is thought to play a key role in learning and memory (Adams and Sweatt, 2002; Ahn, 1993; Tanoue and Nishida, 2003; Johnson and Lapadat, 2002). The activity of this kinase is regulated by dual phosphorylation at Thr202 and Tyr204 (Ahn, 1993).

ERK/MAPK Antibody - References

Adams JP, Sweatt JD (2002) Molecular psychology: Roles for the ERK MAP kinase cascade in memory. Annu Rev Pharmacol Toxicol 42:135-163.

Ahn, NG (1993) The MAP kinase cascade. Discovery of a new signal transduction pathway. Mol Cell Biochem 127-128:201-209.

Johnson GL, Lapadat R (2002) Mitogen-activated protein kinase pathways mediated by ERK, JNK, and p38 protein