10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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 ~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

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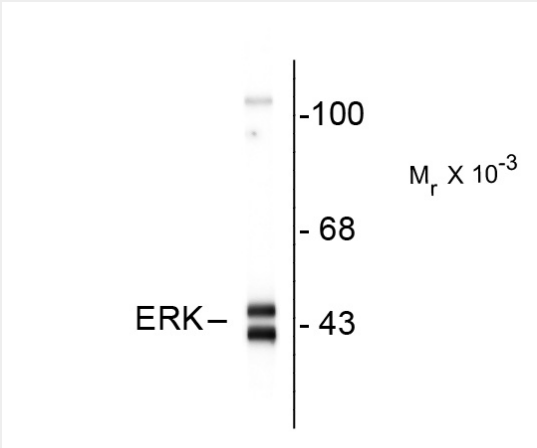
ERK/MAPK Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ERK/MAPK Antibody - Images



Western blot of rat hippocampal homogenate showing specific immunolabelingof the ~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