Product Name: ERK 1 Rabbit Polyclonal Antibody

Catalog #: APRab10593



Summary

Production Name ERK 1 Rabbit Polyclonal Antibody

Description Rabbit Polyclonal Antibody

Host Rabbit
Application WB,ELISA

Reactivity Human, Mouse, Rat

Performance

ConjugationUnconjugatedModificationUnmodified

Isotype IgG

ClonalityPolyclonalFormLiquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw

cycles.

Buffer Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

Purification Affinity purification

Immunogen

Storage

Gene Name MAPK3

MAPK3; ERK1; PRKM3; Mitogen-activated protein kinase 3; MAP kinase 3; MAPK 3;

Alternative Names ERT2; Extracellular signal-regulated kinase 1; ERK-1; Insulin-stimulated MAP2 kinase;

MAP kinase isoform p44; p44-MAPK; Microtubule-associated protein 2 kinase; p

Gene ID 5595.0

P27361.The antiserum was produced against synthesized peptide derived from human

p44 MAPK. AA range:161-210

Application

SwissProt ID

Dilution Ratio WB 1:500 - 1:2000. ELISA: 1:40000. Not yet tested in other applications.

Molecular Weight 45kD

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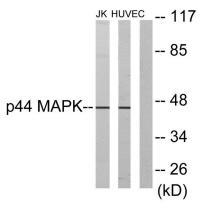
Background

The protein encoded by this gene is a member of the MAP kinase family. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act in a signaling cascade that regulates various cellular processes such as proliferation, differentiation, and cell cycle progression in response to a variety of extracellular signals. This kinase is activated by upstream kinases, resulting in its translocation to the nucleus where it phosphorylates nuclear targets. Alternatively spliced transcript variants encoding different protein isoforms have been described. [provided by RefSeq, Jul 2008],catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Magnesium.,domain:The TXY motif contains the threonine and tyrosine residues whose phosphorylation activates the MAP kinases.,enzyme regulation:Activated by tyrosine phosphorylation in response to insulin and NGF.,function:Involved in both the initiation and regulation of meiosis, mitosis, and postmitotic functions in differentiated cells by phosphorylating a number of transcription factors such as ELK-1. Phosphorylates EIF4EBP1; required for initiation of translation. Phosphorylates microtubule-associated protein 2 (MAP2). Phosphorylates SPZ1 (By similarity). Phosphorylates heat shock factor protein 4 (HSF4).,PTM:Dually phosphorylated on Thr-202 and Tyr-204, which activates the enzyme.,similarity:Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MAP kinase subfamily.,similarity:Contains 1 protein kinase domain.,subunit:Interacts with MORG1 (By similarity). Binds to HIV-1 Nef. This interaction inhibits its kinase activity. Interacts with HSF4 and NISCH.,

Research Area

Regulates Angiogenesis; Regulation_Microtubule; Regulation of Actin Dynamics; Stem cell pathway; T_Cell_Receptor; Insulin Receptor; Cell Growth; Toll Like; MAPK ERK Growth;MAPK G Protein; B Cell Antigen; PI3K/Akt; mTOR

Image Data

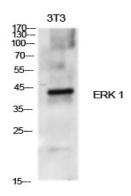


Western blot analysis of lysates from Jurkat and HUVEC cells, using p44 MAPK Antibody. The lane on the right is blocked with the synthesized peptide.

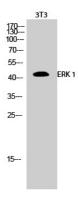
Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

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Western Blot analysis of various cells using ERK 1 Polyclonal Antibody diluted at 1: 500



Western Blot analysis of 3T3 cells using ERK 1 Polyclonal Antibody diluted at 1: 500

Note

For research use only.