

Product Name: ERK 1/2 (phospho Thr202/Y204) Rabbit Polyclonal Antibody
Catalog #: APRab04632



Summary

Production Name	ERK 1/2 (phospho Thr202/Y204) Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IF,IHC,WB,ELISA
Reactivity	Human,Mouse,Rat,Fish

Performance

Conjugation	Unconjugated
Modification	Phospho Antibody
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	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

Gene Name	MAPK1/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	5595/5594
SwissProt ID	P27361/P28482.Synthesized phospho-peptide around the phosphorylation site of human ERK 1/2 (phospho Thr202/Y204)

Application

Dilution Ratio	IF 1:50-200 WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000. Not yet tested in other
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applications.

Molecular Weight

Background

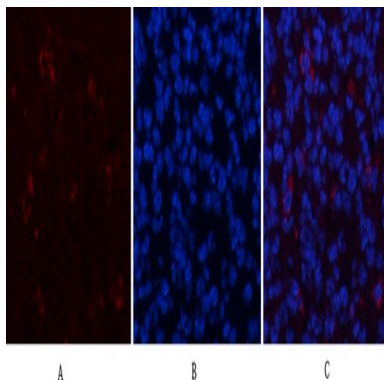
The protein encoded by this gene is a member of the MAP kinase family. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act in a signaling cascade that regulates various cellular processes such as proliferation, differentiation, and cell cycle progression in response to a variety 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., 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 MORF1 (By similarity). Binds to HIV-1 Nef. This interaction inhibits its kinase activity. Interacts with HSF4 and NISCH.,

Research Area

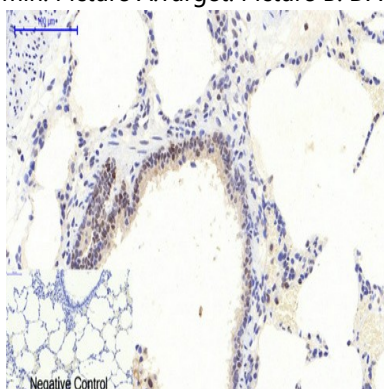
MAPK_ERK_Growth; MAPK_G_Protein; ErbB_HER; Chemokine; Oocyte meiosis; mTOR; Vascular smooth muscle contraction; Dorso-ventral axis formation; TGF-beta; Axon guidance; VEGF; Focal adhesion; Adherens_Junction; Gap junction; Toll_Like; NOD-like receptor; Natural killer cell mediated cytotoxicity; T_Cell_Receptor; B_Cell_Antigen; Fc epsilon RI; Fc gamma R-mediated phagocytosis; Long-term potentiation; Neurotrophin; Long-term depression; Regulates Actin and Cytoskeleton; Insulin_Receptor; GnRH; Progesterone-mediated oocyte maturation; Melanogenesis; Type II diabetes mellitus; Aldosterone-regulated sodium reabsorption; Alzheimer's disease; Prion diseases; Pathways in cancer; Colorectal cancer; Renal cell carcinoma; Pancreatic cancer; Endometrial cancer; Glioma; Prostate cancer; Thyroid cancer; Melanoma; Bladder cancer; Chronic myeloid leukemia; Acute myeloid leukemia; Non-small cell lung cancer;

Image Data

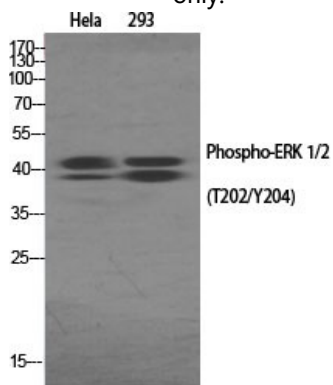
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Immunofluorescence analysis of mouse-spleen tissue. 1, ERK 1/2 (phospho Thr202/Y204) Polyclonal Antibody (red) was diluted at 1:200 (4°C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



Immunohistochemical analysis of paraffin-embedded Rat-lung tissue. 1, ERK 1/2 (phospho Thr202/Y204) Polyclonal Antibody was diluted at 1:200 (4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min). 3, Secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only.



Western Blot analysis of various cells using Phospho-ERK 1/2 (T202/Y204) Polyclonal Antibody



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Note

For research use only.