

# anti-Erk1/2 (phospho-Thr202/Tyr204)

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#### Overview

Product Name: anti-Erk1/2 (phospho-Thr202/Tyr204)

**Product Type**: Primary Antibodies

Description: Rabbit polyclonal to Erk1/2 (phospho-Thr202/Tyr204)

### **Product Information**

Immunogen: Synthetic phospholyrated peptide (KLH coupled) corresponding to residues around Thr202/Tyr204 of human p44

MAP kinase (Erk1)

Clonality: Polyclonal Antibody

Host: Rabbit

Isotype / Subtype : IgG

Application(추가정보): WB (1:5,000)

Reactivity: Human, Mouse, Rat

Positive control: NIH3T3 cell treated with PDGF-BB

Storage: Store for 1 year at -20°C from date of shipment

Composition: HEPES with 0.15M NaCl, 0.01% BSA, 0.03% sodium azide, and 50% glycerol

Conjugation unconjugated

# **Target**

Background: ERK1 and ERK2 are widely expressed and are involved in the regulation of meiosis, mitosis, and postmitotic functions in differentiated cells. Many different stimuli, including growth factors, cytokines, virus infection, ligands for heterotrimeric guanine nucleotide-binding protein (G protein)-coupled receptors and transforming agents, activate the ERK1 and ERK2 pathways. When growth factors bind to the receptor tyrosine kinase, Ras interacts with Raf, the serine/threonine protein kinase and activates it as well. Once actived, Raf phosphorylates serine residue in 2 further kinases, MEK1/2, which in turn phosphorylates tyrosine/threonine in extracellular-signal regulated kinase(ERK) 1/2. Upon activation, the ERKs either phosphorylate a number of cytoplasmic targets or migrate to the nucleus, where they phosphorylate and activate a number of transcription factors such as c-Fos and Elk-1.

Background reference: 1) Smalley, K. (2003) Int. J. Cancer, 104, 527-532

2) Johnson, G.L. and Lapadat, R. (2002) Science, 298, 1911-1912

3) Kolch, W. (2000) Biochem. J. 351, 289-305

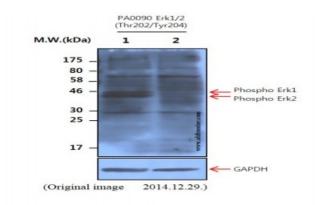
Research area: Cell Signaling Neuroscience

Database link - Geneld 5595

Database link - SwissProt no. P27361, P28482

Function: Involved in both the initiation and regulation of meiosis, mitosis, and postmitotic functions in differentiated cells by ph osphorylating a number of transcription factors such as ELK-1. Phosphorylates EIF4EBP1; required for initiation of trans lation. Phosphorylates microtubule-associated protein 2 (MAP2). Phosphorylates SPZ1. Phosphorylates heat shock factor protein 4 (HSF4).

## **Image**



Western-blot Analysis Lane 1 : PDGF Treated NIH3T3 Cell Lysate Lane 2 : PDGF Not-treated NIH3T3 Cell Lysate



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