LF-MA0134

anti-Erk1/2 (9B3)

AbFRONTIER
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Overview

Product Name : anti-Erk1/2 (9B3)

Product Type : Primary Antibodies

Description : Mouse monoclonal to Erk1/2

Lot No : MJN00

Product Information

Immunogen : Synthetic peptide (KLH coupled) corresponding to residues around Thr202/Tyr204 of human p44 MAP kinase (Erk 1)

Clonality : Monoclonal Antibody

Clone No : 9B3

Host : Mouse

Isotype / Subtype : IgG2b / κ

Application(추가정보) : WB (0.2 μg/ml)

Reactivity : Human

Positive control : HepG2 cells

Concentration : 1 mg/ml

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

Purification : Protein G purified

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.

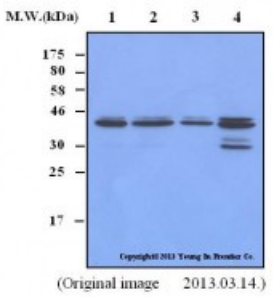
Research area : Cell Signaling Neuroscience

Database link - SwissProt no. P27361, P28482

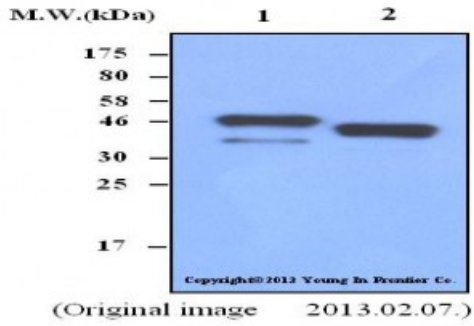
Database link - GeneId 5595

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 fac tor protein 4 (HSF4).

Image



Western-blot Analysis
Lane 1 : HeLa Cell Lysate
Lane 2 : A431 Cell Lysate
Lane 3 : Jurkat Cell Lysate
Lane 4 : 293T Cell Lysate



Western-blot Analysis
Lane 1 : Erk1 Recombinant Protein
Lane 2 : Erk2 Recombinant Protein