



p44/42 MAPK (Erk1/2)

Mouse monoclonal Antibody

#53812

Catalog Number: 53812

Amount: 100µg/100µl

Swiss-Prot No. : P27361

Gene name: erk1/1

Clone Number: 2C6-A12-G8

Form of Antibody: Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol

Storage/Stability: Store at -20°C/1 year

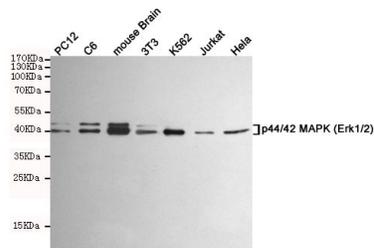
Immunogen: Purified recombinant human p44 MAPK (Erk1) protein fragments expressed in E.coli

Purification: affinity-chromatography

Specificity/Sensitivity: This antibody detects endogenous levels of p44/42 MAPK (Erk1/2) and does not cross-react with related proteins

Reactivity: Human, Mouse, Rat

Applications: Predicted MW: 42/44kd WB: 1:1000



Western blot analysis of extracts from PC12, C6, mouse Brain, 3T3, K562, Jurkat and Hela cell lysates using p44/42 MAPK (Erk1/2) mouse mAb (1:1000 diluted). Predicted band size: 42/44 kDa. Observed band size: 42/44 kDa.

Background:

This gene encodes a member of the MAP kinase family. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. The activation of this kinase requires its phosphorylation by upstream kinases. Upon activation, this kinase translocates to the nucleus of the stimulated cells, where it phosphorylates nuclear targets. One study also suggests that this protein acts as a transcriptional repressor independent of its kinase activity. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. Two alternatively spliced transcript variants encoding the same protein, but differing in the UTRs, have been reported for this gene.