



p44/42MAPK(Phospho-Thr202/Tyr204)

#53811

Mouse monoclonal Antibody

**Catalog Number:** 53811

**Amount:** 100µg/100µl

**Swiss-Prot No. :** P27361

**Gene name:** mapk

**Clone Number:** 2E8-2F6-C12

**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

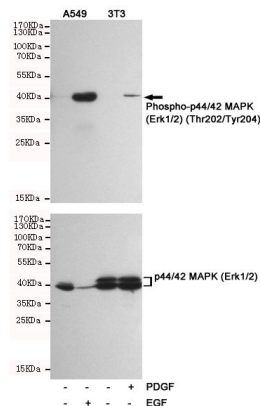
**Immunogen:** Purified recombinant human Phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) protein fragments expressed in E.coli

**Purification:** affinity-chromatography

**Specificity/Sensitivity:** This antibody detects endogenous levels of p44/42 MAPK (Erk1/2) only when Phospholated at Thr202/Tyr204 and does not cross-react with related proteins

**Reactivity:** Human, Mouse

**Applications:** Predicted MW: 42/44kd WB: 1:500



Western blot analysis of Phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) from EGF-treated A549 cells and PDGF-treated NIH/3T3 cells, using Phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) Mouse mAb (201245, 1:500 diluted, upper) and p44/42 MAPK (Erk1/2) Mouse mAb (201246, 1:500 diluted, lower).

### 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.