



P38 MAPK

Mouse monoclonal Antibody

#53307

Catalog Number: 53307

Amount: 100µg/100µl

Swiss-Prot No. : Q16539

Gene name: mapk14

Gene id: 1432

Clone Number: 5A1-C5-F11

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

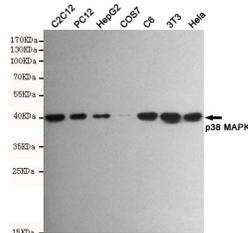
Immunogen: Purified recombinant human P38 MAPK protein fragments expressed in E.coli

Purification: affinity-chromatography

Specificity/Sensitivity: This antibody detects endogenous levels of P38 MAPK and does not cross-react with related proteins

Reactivity: Human, Mouse, Rat, Monkey

Applications: Predicted MW: 40kd WB: 1:500



Western blot analysis of extracts from C2C12, PC12, HepG2, COS7, C6, 3T3 and Hela cell lysates using p38 MAPK mouse mAb (1:500 diluted). Predicted band size: 40KDa. Observed band size: 40KDa.

Background:

The protein encoded by this gene is a member of the MAP kinase family. MAP kinases 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. This kinase is activated by various environmental stresses and proinflammatory cytokines. The activation requires its phosphorylation by MAP kinase kinases (MKKs), or its autophosphorylation triggered by the interaction of MAP3K7IP1/TAB1 protein with this kinase. The substrates of this kinase include transcription regulator ATF2, MEF2C, and MAX, cell cycle regulator CDC25B, and tumor suppressor p53, which suggest the roles of this kinase in stress related transcription and cell cycle regulation, as well as in genotoxic stress response. Four alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported.