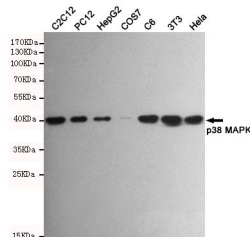


**P38 MAPK****Mouse monoclonal Antibody****#53307****Catalog Number:** 53307**Amount:** 100µg/100µl**Swiss-Prot No. :** Q16539**Gene name:** mapk14**Gene id:** 1432**Clone Number:** 5A1-C5-F11**Form of Antibody:** Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) 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.