p38 MAPK Monoclonal Antibody

Catalog No. A10832
Applications WB, IHC
Cross-reactivity Human, Mouse, Rat

Immunogen Information
Immunogen A synthetic peptide corresponding to a sequence within amino acids 300 to the C-terminus of human p38 MAPK (NP_620581.1).
Gene ID 1432
Swiss prot Q16539
Synonyms MAPK14; CSBP; CSBP1; CSBP2; CSBP1; EXIP; Mxi2; PRKM14; PRKM15; RK; SAPK2A; p38; p38ALPHA; mitogen-activated protein kinase 14

Product Information
Source Rabbit
Isotype IgG
Purification method Affinity purification
Storage Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.

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.

Recommended Dilutions
WB 1:500 - 1:200
IHC 1:50 - 1:200

Western blot analysis of extracts of various cell lines, using p38 MAPK antibody (A10832).
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25ug per lane.
Blocking buffer: 3% nonfat dry milk in TBST.

Immunohistochemistry of paraffin-embedded Rat brain using p38 MAPK antibody (A10832) at dilution of 1:100 (40x lens).

Immunohistochemistry of paraffin-embedded Human placenta using p38 MAPK antibody (A10832) at dilution of 1:100 (40x lens).

Immunohistochemistry of paraffin-embedded Mouse heart using p38 MAPK antibody (A10832) at dilution of 1:100 (40x lens).