

Anti-p38alpha MAP Kinase Monoclonal Antibody

ORDERING INFORMATION

Catalog No.: 56450 (clone 9F12))

Size: 100ug in PBS, pH 7.4, purified by Protein G affinity chromatography.

BACKGROUND

The MAPKs (Mitogen-Activated Protein Kinases) are protein-serine/threonine kinases which signal transduction pathways that control intracellular events including acute responses to hormones and major developmental changes in organisms. Upon activation, p38 α MAPK translocates into the nucleus where it phosphorylates one or more nuclear substrates, effecting transcriptional changes and other cellular processes involved in cell growth, division, differentiation, inflammation, and death. p38 α MAPK is activated by chemical stress inducers including hydrogen peroxide, heavy metals, anisomycin, sodium salicylate, lipopolysaccharide, and biological stress signals such as tumor necrosis factor, interleukin-1, ionizing and UV irradiation, hyperosmotic stress and chemotherapeutic drugs.

SPECIFICATION SUMMARY

Antigen: Recombinant human p38 α MAPK expressed in *E. coli*.

Host Species: Mouse

Antibody Class: IgG1

Preservatives: 0.09% sodium azide

Other additives: 50% glycerol

SPECIFICITY

This antibody recognizes human p38 α MAPK.

APPLICATIONS

Immunoblotting: use at 1ug/ml. A band of ~38 kDa is detected.

These are recommended concentrations. User should determine optimal concentrations for their application.

Positive control: Purified p38 α MAPK.

DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Avoid repeated freezing and thawing.

For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.