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Recombinant Human P38α/MAPK14 Protein

Catalog No.: RP03549LQ Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	1432	Q16539

Tags
N-GST

Synonyms
p38; CSBP; EXIP; Mxi2; CSBP2; PRKM14; PRKM15; SAPK2A; p38ALPHA

Product Information

Source	Purification
insect cell-baculovirus	> 85% as determined by SDS-PAGE.

Calculated MW	Observed MW
67.8 KDa	68 KDa

Endotoxin

Formulation
Supplied as sterile 50 mM Tris-HCl (pH 7.5), 150 mM NaCl, 5% glycerol, 5 mM DTT, 0.1 M Trehalose.

Reconstitution
Please use running water to thaw it quickly.

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.

Basic Information

Description
Recombinant Human P38α/MAPK14 Protein is produced by insect cell-baculovirus expression system. The target protein is expressed with sequence (Ser2-Ser360) of human P38α/MAPK14 (Accession #NP_620581.1).

Bio-Activity

Storage
Store at -70°C. This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles.
Avoid repeated freeze/thaw cycles.

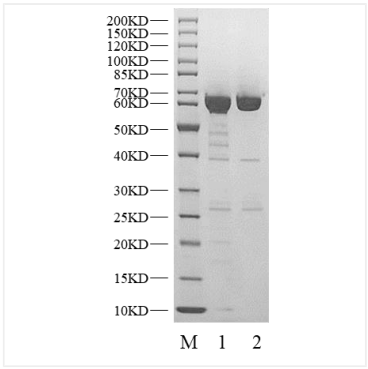
Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Validation Data



Recombinant Human P38α/MAPK14 was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.