

Recombinant Human MAPK14 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MAPK14-6431H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

MAPK14 MS Standard C13 and N15-labeled recombinant protein (NP_620581) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

Description

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.

Molecular Mass

41.3 kDa

AA Sequence

MSQERPTFYRQELNKTIWEVPERYQNLSPVGSGAYGSVCAAFDTKTGLRVAVKKLS

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RPFQSIHAKRTYRELRLKMKHENVIGLLDVFTPARSLEEFNDVYLVTHLMGADLN
 NIVKCQKLTDDHVQFLIYQILRGLKYIHSADIIHRDLKPSNLAVNEDCELKILDFGLARH
 TDDEMTGYVATRWRAPPEIMLNWMHYNQTVDIWSVGCIMAELLTGRTLFPGTDHID
 QLKILRLVGTPGAELLKKISSESARNYIQSLTQMPKMNANFVIGANPLAVDLLEKML
 VLSDKRITAAQALAHAYFAQYHDPDDEPVADPYDQSFESRDLLIDEWKSLTYDEVI
 SFVPPPLDQEEMESTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name MAPK14 mitogen-activated protein kinase 14 [Homo sapiens (human)]

Official Symbol MAPK14

Synonyms MAPK14; mitogen-activated protein kinase 14; CSBP1, CSBP2, CSPB1; Mxi2; p38; p38 MAP kinase; PRKM14; PRKM15; MAP kinase 14; p38alpha Exip; MAP kinase Mxi2; MAP kinase p38 alpha; CSAID-binding protein; Csaids binding protein; MAX-interacting protein 2; stress-activated protein kinase 2A; p38 mitogen activated protein kinase; mitogen-activated protein kinase p38 alpha; cytokine suppressive anti-inflammatory drug binding protein; cytokine suppressive anti-inflammatory drug-binding protein; RK; CSBP; EXIP; CSBP1; CSBP2; CSPB1; SAPK2A; p38ALPHA;

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Gene ID 1432

mRNA Refseq NM_139012

Protein Refseq NP_620581

MIM 600289

UniProt ID Q16539

SDS-PAGE



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