

Recombinant Human MAPK13

Cat. No. MAPK13-31380TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human SAPK4 with a N-terminal tag.
Species	Human
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 closely related to p38 MAP kinase, both of which can be activated by proinflammatory cytokines and cellular stress. MAP kinase kinases 3, and 6 can phosphorylate and activate this kinase. Transcription factor ATF2, and microtubule dynamics regulator stathmin have been shown to be the substrates of this kinase.
Tissue specificity	Expressed in testes, pancreas, small intestine, lung and kidney. Abundant in macrophages, also present in neutrophils, CD4+ T-cells, and endothelial cells.
Form	Liquid
Storage buffer	Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, pH 7.5
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence	Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MAP

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Similarities

kinase subfamily.Contains 1 protein kinase domain.

GENE INFORMATION
Gene Name

MAPK13 mitogen-activated protein kinase 13 [Homo sapiens]

Official Symbol

MAPK13

Synonyms

MAPK13; mitogen-activated protein kinase 13; PRKM13; p38delta; SAPK4;

Gene ID

5603

mRNA Refseq

NM_002754

Protein Refseq

NP_002745

MIM

602899

Uniprot ID

O15264

**Chromosome
Location**

6p21

Pathway

Amyotrophic lateral sclerosis (ALS), organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), conserved biosystem; Cell-Cell communication, organism-specific biosystem; Chagas disease (American trypanosomiasis), organism-specific biosystem; Chagas disease (American trypanosomiasis), conserved biosystem;

Function

ATP binding; MAP kinase activity; MAP kinase activity; nucleotide binding; protein binding;

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