Recombinant Human MAP2K2

Cat. No. MAP2K2-29202TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human MEK2 with N-terminal proprietary tag expressed by Baculovirus in Sf9 insect cells, MWt 71 kDa.
Species	Human
Description	The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase is known to play a critical role in mitogen growth factor signal transduction. It phosphorylates and thus activates MAPK1/ERK2 and MAPK2/ERK3. The activation of this kinase itself is dependent on the Ser/Thr phosphorylation by MAP kinase kinase kinases. Mutations in this gene cause cardiofaciocutaneous syndrome (CFC syndrome), a disease characterized by heart defects, mental retardation, and distinctive facial features similar to those found in Noonan syndrome. The inhibition or degradation of this kinase is also found to be involved in the pathogenesis of Yersinia and anthrax. A pseudogene, which is located on chromosome 7, has been identified for this gene.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 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.

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Sequence Similarities	Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. MAP kinase kinase subfamily.Contains 1 protein kinase domain.
Full Length	Full L.

GENE INFORMATION

Gene Name	MAP2K2 mitogen-activated protein kinase kinase 2 [Homo sapiens]
Official Symbol	MAP2K2
Synonyms	MAP2K2; mitogen-activated protein kinase kinase 2; PRKMK2; dual specificity mitogen-activated protein kinase kinase 2; MEK2;
Gene ID	5605
mRNA Refseq	NM_030662
Protein Refseq	NP_109587
MIM	601263
Uniprot ID	P36507
Chromosome Location	19p13.3
Pathway	ARMS-mediated activation, organism-specific biosystem; Activated TLR4 signalling, organism-specific biosystem; Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; Axon guidance, organism-specific biosystem;

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Function	ATP binding; MAP kinase kinase activity; nucleotide binding; protein binding; protein complex scaffold;

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