

Recombinant Human MAP2K2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MAP2K2-4024H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MAP2K2 MS Standard C13 and N15-labeled recombinant protein (NP_109587) 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 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, cognitive disability, 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.
Molecular Mass	44.2 kDa
AA Sequence	MLARRKPVLPALTINPTIAEGPSPTSEGASEANLVDLQKKLEELDEQQKKRLEAFL TQKAKVGELKDDDFERISELGAGNGGVVTKVQHRPSGLIMARKLIHLEIKPAIRNQIIR ELQVLHECNSPYIVGFYGAIFYSDGEISICMEHMDGGSLDQVLKEAKRIPEEILGKVSI

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AVLRGLAYLREKHQIMHRDVKPSNILVNSRGEIKLCDFGVSGQLIDSMANSFVGTRS
YMAPERLQGTHYSVQSDIWSMGLSLVELAVGRYPPIPPDAKELEAIFGRPVDGEE
GEPHSISPRPRPPGRPVSFGHGMDSRPAMAIFELLDYIVNEPPPKLPNGVFTPDPFQEF
VНКCLIKNPAERADLKMLTNHTFIKRSEVEEVDFAGWLCKTLRLNQPGTPTRTAVTR
TRPLEQKLISEEDLAANDILDYKDDDDKV

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 [MAP2K2 mitogen-activated protein kinase kinase 2 \[Homo sapiens \(human\) \]](#)

Official Symbol [MAP2K2](#)

Synonyms MAP2K2; mitogen-activated protein kinase kinase 2; PRKMK2; dual specificity mitogen-activated protein kinase kinase 2; MEK2; MAPK/ERK kinase 2; MAP kinase kinase 2; ERK activator kinase 2; mitogen-activated protein kinase kinase 2, p45; MKK2; MAPKK2; FLJ26075;

Gene ID [5605](#)

mRNA Refseq [NM_030662](#)

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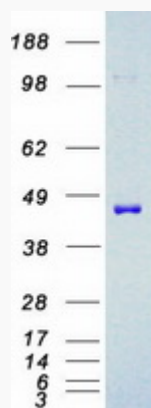
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Protein Refseq NP_109587

MIM 601263

UniProt ID P36507

SDS-PAGE



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