

Product datasheet for PH306051

MEK4 (MAP2K4) (NM_003010) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	MAP2K4 MS Standard C13 and N15-labeled recombinant protein (NP_003001)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC206051
Predicted MW:	44.1 kDa
Protein Sequence:	>RC206051 representing NM_003010 Red=Cloning site Green=Tags(s)

MAAPSPSGGGGGGGRSGTGPVGVGSPAPGHPAVSSMQGKRKALKLNANPPFKSTARFTLNPNTGVQN
PHIERLRTHSIESSGKLIKISPEQHWFDTAEDLKDLDGEIGRGAYGSVNKMVHKPSGQIMAVKRIRSTVDEK
EQKQLLMDLDVVMRSSDCPYIVQFYGALFREGDCWICMELMSTSFDFKYVYVSVLDDVIPEEILGKITL
ATVKALNHLKENLKIHRDIKPSNILLDRSGNIKLCDFGISGQLVDSIAKTRDAGCRPYMAPERIDPSAS
RQGYDVRSVWVSLGITLYELATGRFPYPKWNSVFDQLTQVVKGDPPQLSNSEEREFSPSFINFVNLCLTK
DESKRPKYKELLKHPFILMYEERAVEVACYVCKILDQMPATPSSPMYVD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_003001</u>
RefSeq Size:	3752
RefSeq ORF:	1197
Synonyms:	JNKK; JNKK1; MAPKK4; MEK4; MKK4; PRKMK4; SAPKK-1; SAPKK1; SEK1; SERK1; SKK1
Locus ID:	6416



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UniProt ID: [P45985](#)

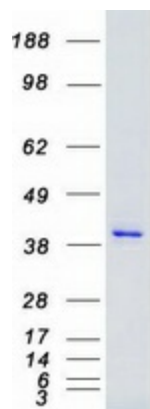
Cytogenetics: 17p12

Summary: This gene encodes a member of the mitogen-activated protein kinase (MAPK) family. Members of this family 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. They form a three-tiered signaling module composed of MAPKKKs, MAPKKs, and MAPKs. This protein is phosphorylated at serine and threonine residues by MAPKKKs and subsequently phosphorylates downstream MAPK targets at threonine and tyrosine residues. A similar protein in mouse has been reported to play a role in liver organogenesis. A pseudogene of this gene is located on the long arm of chromosome X. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Epithelial cell signaling in Helicobacter pylori infection, ErbB signaling pathway, Fc epsilon RI signaling pathway, GnRH signaling pathway, MAPK signaling pathway, Toll-like receptor signaling pathway

Product images:



Coomassie blue staining of purified MAP2K4 protein (Cat# [TP306051]). The protein was produced from HEK293T cells transfected with MAP2K4 cDNA clone (Cat# [RC206051]) using MegaTran 2.0 (Cat# [TT210002]).