

Product datasheet for PH318460

MEK1 (MAP2K1) (NM_002755) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	MAP2K1 MS Standard C13 and N15-labeled recombinant protein (NP_002746)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC218460
Predicted MW:	43.3 kDa
Protein Sequence:	>RC218460 representing NM_002755 Red=Cloning site Green=Tags(s)
	MPKKKPTPIQLNPAPDGSVNGTSSAETNLEALQKKLEELDEQQRKLEAFLTQKQKVGELKDDDFEK ISELGAGNGGVVFKVSHKSSGLVMARKLIHLEIKPAIRNQIIRELQVLHECNSPYIVGFYGFYSDGEIS ICMEHMDGGSLDQVLKKAGRIPEQILGKYSIAVIKGLTYLREKHKIMHRDVKPSNILVNSRGEIKLCDFG VSGQLIDSMANSFVGRSYMSPERLQGTHYSVQSDIWSMGLSLVEMAVGRYPIDPPDAKELELMFGCQVE GDAAEPTPRPRTGPRPLSSYGMSRPPMAIFELLDYIVNEPPPPLPSGVFSLEFQDFVNKCLIKNPAERA DLKQLMVHAFIKRSDAEVDFAGWLCSTIGLNQSPSTPHTAAGV
	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_002746</u>
RefSeq Size:	2222
RefSeq ORF:	1179
Synonyms:	CFC3; MAPKK1; MEK1; MEL; MKK1; PRKMK1
Locus ID:	5604



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UniProt ID: [Q02750](#), [A4QPA9](#)

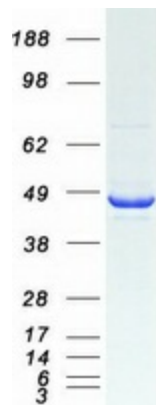
Cytogenetics: 15q22.31

Summary: The protein encoded by this gene is a member of the dual specificity protein kinase family, which acts as a mitogen-activated protein (MAP) kinase kinase. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. This protein kinase lies upstream of MAP kinases and stimulates the enzymatic activity of MAP kinases upon wide variety of extra- and intracellular signals. As an essential component of MAP kinase signal transduction pathway, this kinase is involved in many cellular processes such as proliferation, differentiation, transcription regulation and development. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Acute myeloid leukemia, B cell receptor signaling pathway, Bladder cancer, Chemokine signaling pathway, Chronic myeloid leukemia, Colorectal cancer, Dorso-ventral axis formation, Endometrial cancer, ErbB signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Focal adhesion, Gap junction, Glioma, GnRH signaling pathway, Insulin signaling pathway, Long-term depression, Long-term potentiation, MAPK signaling pathway, Melanogenesis, Melanoma, Natural killer cell mediated cytotoxicity, Neurotrophin signaling pathway, Non-small cell lung cancer, Oocyte meiosis, Pancreatic cancer, Pathways in cancer, Prion diseases, Progesterone-mediated oocyte maturation, Prostate cancer, Regulation of actin cytoskeleton, Renal cell carcinoma, T cell receptor signaling pathway, Thyroid cancer, Toll-like receptor signaling pathway, Vascular smooth muscle contraction, VEGF signaling pathway

Product images:



Coomassie blue staining of purified MAP2K1 protein (Cat# [TP318460]). The protein was produced from HEK293T cells transfected with MAP2K1 cDNA clone (Cat# [RC218460]) using MegaTran 2.0 (Cat# [TT210002]).