OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for PH300358

MAPKAP Kinase 3 (MAPKAPK3) (NM_004635) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	MAPKAPK3 MS Standard C13 and N15-labeled recombinant protein (NP_004626)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200358
Predicted MW:	43 kDa
Protein Sequence:	>RC200358 protein sequence Red=Cloning site Green=Tags(s) MDGETAEEQGGPVPPPVAPGGPGLGGAPGGRREPKKYAVTDDYQLSKQVLGLGVNGKVLECFHRRTGQKC ALKLLYDSPKARQEVDHHWQASGGPHIVCILDVYENMHHGKRCLLIIMECMEGGELFSRIQERGDQAFTE REAAEIMRDIGTAIQFLHSHNIAHRDVKPENLLYTSKEKDAVLKLTDFGFAKETTQNALQTPCYTPYYVA PEVLGPEKYDKSCDMWSLGVIMYILLCGFPPFYSNTGQAISPGMKRRIRLGQYGFPNPEWSEVSEDAKQL IRLLLKTDPTERLTITQFMNHPWINQSMVVPQTPLHTARVLQEDKDHWDEVKEEMTSALATMRVDYDQVK IKDLKTSNNRLLNKRRKKQAGSSSASQGCNNQ 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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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:	NP_004626
RefSeq Size:	2553
RefSeq ORF:	1146
Synonyms:	3PK; MAPKAP-K3; MAPKAP3; MAPKAPK-3; MDPT3; MK-3; MK3
Locus ID:	7867

View online »

UniProt ID: Q16644, A0A024R2W7

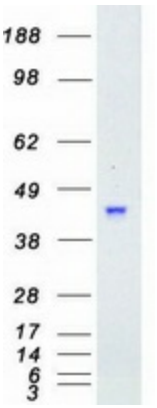
Cytogenetics: 3p21.2

Summary: This gene encodes a member of the Ser/Thr protein kinase family. This kinase functions as a mitogen-activated protein kinase (MAP kinase)- activated protein kinase. MAP kinases are also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. This kinase was shown to be activated by growth inducers and stress stimulation of cells. In vitro studies demonstrated that ERK, p38 MAP kinase and Jun N-terminal kinase were all able to phosphorylate and activate this kinase, which suggested the role of this kinase as an integrative element of signaling in both mitogen and stress responses. This kinase was reported to interact with, phosphorylate and repress the activity of E47, which is a basic helix-loop-helix transcription factor known to be involved in the regulation of tissue-specific gene expression and cell differentiation. Alternate splicing results in multiple transcript variants that encode the same protein. [provided by RefSeq, Sep 2011]

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: MAPK signaling pathway, VEGF signaling pathway

Product images:



Coomassie blue staining of purified MAPKAPK3 protein (Cat# [TP300358]). The protein was produced from HEK293T cells transfected with MAPKAPK3 cDNA clone (Cat# [RC200358]) using MegaTran 2.0 (Cat# [TT210002]).