

Product datasheet for PH320487

MAPKAP Kinase 2 (MAPKAPK2) (NM_004759) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	MAPKAPK2 MS Standard C13 and N15-labeled recombinant protein (NP_004750)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC220487
Predicted MW:	42 kDa
Protein Sequence:	>RC220487 representing NM_004759 Red=Cloning site Green=Tags(s)

MLSNSQGQSPVPFPAPAPPPQPPTPALPHPPAQPPPPPPQFPQFHVKSGLQIKKNAIIDDYKVT SQVL
GLGINGKVLQIFNKRTQEKFALKMLQDCPKARREVELHWRASQCPHIVRIVDVYENLYAGRKCLLI VMEC
LDGGELFSRIQDRGDQAFTEREASEIMKSIGEAIQYLHSINIAHRDVKPENLLYTSKRPNAILKLTDFGF
AKETTSHNSLTTPCYTPYYVAPEVLGPEKYDKSCDMWSLGVIMYILLCGYPPFYSNHGLAISP GKMTRIR
MGQYEFNPWEVSEEVKMLIRNLLKTEPTQRMTITEFMNHPWIMQSTKVPQTPLHTSRVLKEDKERWE
DVKGCLHDKNSDQATW LTRL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

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_004750</u>
RefSeq Size:	3608
RefSeq ORF:	1110
Synonyms:	MAPKAP-K2; MK-2; MK2
Locus ID:	9261



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UniProt ID: [P49137](#)

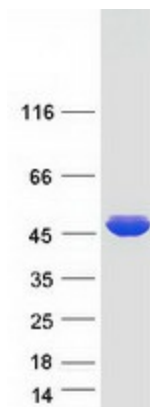
Cytogenetics: 1q32.1

Summary: This gene encodes a member of the Ser/Thr protein kinase family. This kinase is regulated through direct phosphorylation by p38 MAP kinase. In conjunction with p38 MAP kinase, this kinase is known to be involved in many cellular processes including stress and inflammatory responses, nuclear export, gene expression regulation and cell proliferation. Heat shock protein HSP27 was shown to be one of the substrates of this kinase in vivo. Two transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: MAPK signaling pathway, Neurotrophin signaling pathway, VEGF signaling pathway

Product images:



Coomassie blue staining of purified MAPKAPK2 protein (Cat# [TP320487]). The protein was produced from HEK293T cells transfected with MAPKAPK2 cDNA clone (Cat# [RC220487]) using MegaTran 2.0 (Cat# [TT210002]).