

## Product datasheet for PH308563

### MAPKAP Kinase 2 (MAPKAPK2) (NM\_032960) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	MAPKAPK2 MS Standard C13 and N15-labeled recombinant protein (NP_116584)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC208563
Predicted MW:	45.4 kDa
Protein Sequence:	>RC208563 representing NM_032960 Red=Cloning site Green=Tags(s)
	<p>MLSNSQGGQSPVPFPAPAPPPQPPTPALPHPPAQPPPPPPQFPQFHVKSGLQIKKNAIIDDYKVT SQVL            GLGINGKVLQIFNKRTQEKFALKMLQDCPKARREVELHWRASQCPHIVRIVDVYENLYAGRKCLLI VMEC            LDGGELFSRIQDRGDQAFTEREASEIMKSIGEAIQYLHSINIAHRDVKPENLLYTSKRPNAILKLTDFGF            AKETTSHNSLTTPCYTPYYVAPEVLGPEKYDKSCDMWSLGVIMYILLCGYPPFYSNHGLAISP GKMTRIR            MGQYEFNPPEWSEVSEEVKMLIRNLLKTEPTQRMTITFEMNHPWIMQSTKVPQTPLHTSRVLKEDKERWE            DVKEEMTSALATMRVDYEQIKIKKIEDASNPLLLKRRKKARALEAAALAH</p> <p>TRTRPLEQKLI SEEDLAANDILDYKDDDDKV</p>
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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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:	<a href="#">NP_116584</a>
RefSeq Size:	3071
RefSeq ORF:	1200
Synonyms:	MAPKAP-K2; MK-2; MK2
Locus ID:	9261



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UniProt ID: [P49137](#)

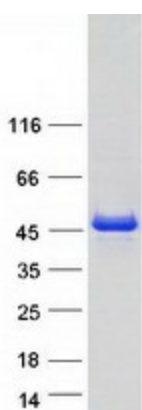
Cytogenetics: 1q32.1

**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# [TP308563]). The protein was produced from HEK293T cells transfected with MAPKAPK2 cDNA clone (Cat# [RC208563]) using MegaTran 2.0 (Cat# [TT210002]).