

Datasheet for ABIN7317094

MAPKAP Kinase 3 Protein (GST tag)**1** Image[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	MAPKAP Kinase 3 (MAPKAPK3)
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAPKAP Kinase 3 protein is labelled with GST tag.

Product Details

Purpose:	Recombinant Human MAPKAPK3 Protein (GST Tag)
Sequence:	Met 1-Gln 382
Characteristics:	A DNA sequence encoding the full length of human MAPKAPK3 (NP_004626.1) (Met 1-Gln 382) was expressed with the GST tag at the N-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	MAPKAP Kinase 3 (MAPKAPK3)
Alternative Name:	MAPKAPK3 (MAPKAPK3 Products)
Background:	Background: The MAPKAP kinases are a group of MAP kinase substrates which are themselves kinases. In response to activation, the MAP kinases phosphorylate downstream components on a consensus Pro-X-Ser/Thr-Pro motif. Several kinases that contain this motif have been

Target Details

identified and serve as substrates for the ERK and p38 MAP kinases. Mitogen-activated protein (MAP) kinase-activated protein kinase 3, also known as MAPKAPK-3 and 3pK, is a member of the Ser/Thr protein kinase family. It is Widely expressed in human tissues, with a higher expression level observed in heart and skeletal muscle. No expression in brain. MAPKAPK-3 is unique since it was shown to be activated by three members of the MAPK family, namely extracellular-signal-regulated kinase (ERK), p38, and Jun-N-terminal kinase (JNK). It is highly activated both by mitogens and by stress-inducing agents or proinflammatory cytokines, and translocates to the cytoplasm from nucleus. MAPKAPK-3 is exclusively activated via the classical MAPK cascade, while stress-induced activation of MAPKAPK-3 is mainly mediated by p38, however the mechanism defining the specificity remains unknown.

Synonym: 3PK,MAPKAP-K3,MAPKAP3,MAPKAPK-3,MK-3

Molecular Weight: 69 kDa

NCBI Accession: [NP_004626](#)

Pathways: [MAPK Signaling](#), [Neurotrophin Signaling Pathway](#), [Activation of Innate immune Response](#), [Toll-Like Receptors Cascades](#)

Application Details

Restrictions: For Research Use only

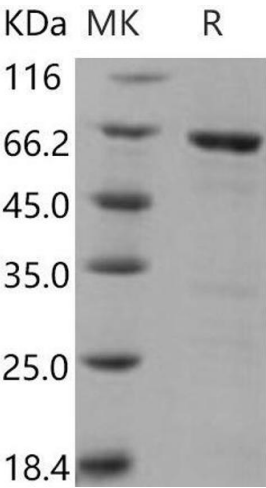
Handling

Format: Frozen, Liquid

Buffer: Supplied as sterile 50 mM Tris, 100 mM NaCl, pH 7.5, 0.25 mM DTT, 0.1 mM EDTA, 0.5 mM PMSF, 10 % glycerol

Storage: -20 °C

Storage Comment: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.



Western Blotting

Image 1.