

Datasheet for ABIN7317049

MAPKAP Kinase 5 Protein (GST tag,His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	50 µg
Target:	MAPKAP Kinase 5 (MAPKAPK5)
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAPKAP Kinase 5 protein is labelled with GST tag,His tag.

Product Details

Purpose:	Recombinant Human MAPKAPK5 Protein (His & GST Tag)
Sequence:	Met 1-Gln 471
Characteristics:	A DNA sequence encoding the human MAPKAPK5 isoform 1 (NP_003659.2) (Met 1-Gln 471) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.
Purity:	> 76 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	MAPKAP Kinase 5 (MAPKAPK5)
Alternative Name:	MAPKAPK5 (MAPKAPK5 Products)
Background:	Background: MAPKAPK5 contains 1 protein kinase domain and belongs to the protein kinase superfamily, CAMK Ser/Thr protein kinase family. MAPKAPK5 has significant sequence homology to mitogen-activated protein kinase (MAPK)-activated protein kinase (MAPKAPK). It

Target Details

is widely distributed. MAPKAPK5 can be phosphorylated by extracellular-regulated kinase (ERK), and p38 kinase but not by c-jun N-terminal kinase (JNK) in vitro. Recombinant GST-MAPKAPK5 protein can phosphorylate a peptide derived from the regulatory light chain of myosin II. Phosphorylation of MAPKAPK5 by ERK and p38 kinase increased its activity by 9 and 15 fold respectively. Taken together, these data suggest that MAPKAPK5 is a novel in vitro substrate for ERK and p38 kinase. In response to cellular stress and proinflammatory cytokines, this kinase is activated through its phosphorylation by MAP kinases including MAPK1/ERK, MAPK14/p38-alpha, and MAPK11/p38-beta. MAPKAPK5 also mediates stress-induced small heat shock protein 27 phosphorylation.

Synonym: MAPKAP-K5, MK-5, MK5, PRAK

Molecular Weight: 82 kDa

NCBI Accession: [NP_003659](#)

Pathways: [MAPK Signaling](#)

Application Details

Restrictions: For Research Use only

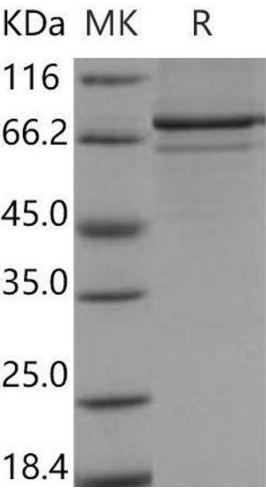
Handling

Format: Frozen, Liquid

Buffer: Supplied as sterile 20 mM Tris, 500 mM NaCl, pH 8.0, 10 % glycerol

Storage: -20 °C

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



Western Blotting

Image 1.