Recombinant Human MAPKAPK2/MK2 Kinase

Catalog No.: RP03404LQ

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Sequence Information

Species
Human

Gene ID
9261

Swiss Prot
P49137

Tags
No tag

Synonyms
MAPKAPK2; MK-2; MK2; MAP kinase-activated protein kinase 2

Product Information

Source
E. coli

Purification
≥ 85% as determined by SDS-PAGE;≥ 85% as determined by HPLC.

Calculated MW
37.4 kDa

Observed MW
30-40 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Supplied as a 0.22 μm filtered solution in 50 mM Tris-HCl, 200 mM NaCl, 5% glycerol, 1 mM DTT. (pH 7.5). Contact us for customized product form or formulation.

Reconstitution
Please use running water to thaw it quickly.

Background

MAP kinase-activated protein kinase 2 is an enzyme that in humans is encoded by the MAPKAPK2 gene. 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 its major direct substrate in vivo.

Basic Information

Description
Recombinant Human MAPKAPK2/MK2 Kinase is produced by E. coli expression system. The target protein is expressed with sequence (Gln41-Met363) of Human MAPKAPK2 (Accession #P49137) fused with No tag.

Activity
The activity of MAPKAPK2 is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -70℃

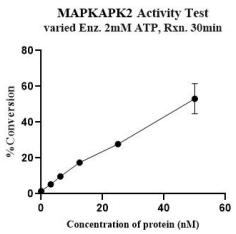
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

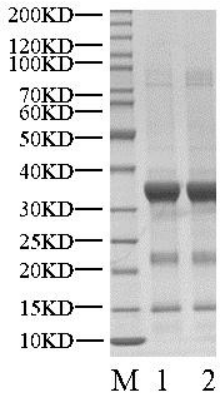
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Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



The activity of MAPKAPK2 is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.



Recombinant Human MAPKAPK2/MK2 Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.