

RP03390LQ

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Recombinant Human ERK2/MAPK1 Kinase

Catalog No.: RP03390LQ **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
E. coli	5594	P28482

Tags

N-Flag-His

Synonyms

MAPK1; ERK2; PRKM1; PRKM2; ERK-2; p42-MAPK; Mitogen-activated protein kinase 1; Extracellular signal-regulated kinase 2

Product Information

Source

Purification

≥ 90 % as determined by SDS-PAGE; ≥ 90 % as determined by HPLC.

Endotoxin

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

Formulation

Supplied as a 0.22 μm filtered solution in 50 mM HEPES, 150 mM NaCl, 5% glycerol. (pH 7.5). Contact us for customized product form or formulation.

Reconstitution

Please use running water to thaw it quickly.

Contact



www.abclonal.com

Background

Mitogen-activated protein kinase 1 (MAPK 1), also known as ERK2, is an enzyme that in humans is encoded by the MAPK1 gene. ERK2 is a member of the MAP kinase family. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. The activation of this kinase requires its phosphorylation by upstream kinases. Upon activation, this kinase translocates to the nucleus of the stimulated cells, where it phosphorylates nuclear targets. Two alternatively spliced transcript variants encoding the same protein, but differing in the UTRs, have been reported for this gene. MAPK1 contains multiple amino acid sites that are phosphorylated and ubiquitinated.

Basic Information

Description

Recombinant Human ERK2/MAPK1 Kinase is produced by E. coli expression system. The target protein is expressed with sequence (Met1-Ser360) of Human MAPK1 (Accession #P28482) fused with a N-Flag-His tag.

Bio-Activity

The activity of ERK2 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

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Operational Notes

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

Storage

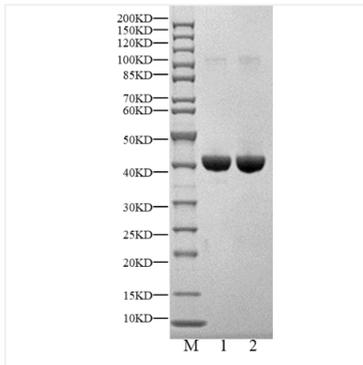
Store at -70°C. This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

Aliquots below 10 μL are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles.

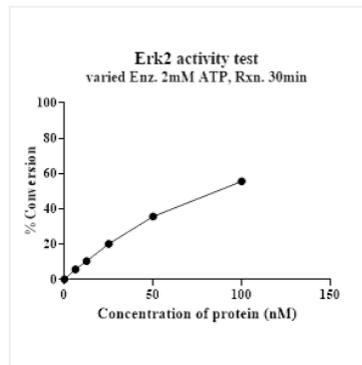
Avoid repeated freeze/thaw cycles.

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Validation Data



Recombinant Human ERK2/MAPK1 Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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