

RP00026

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Recombinant Human ERK2/MAPK1 Protein

Catalog No.: RP00026

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
<I>E. coli</I>	5594	P28482

Tags

N-GST

Synonyms

ERK;ERK-2;ERK2;ERT1;MAPK2;P42MAPK;PRKM1;PRKM2;p38;p40;p41;p41mapk;p42-MAPK;MAPK1

Product Information

Source	Purification
<I>E. coli</I>	> 70% by SDS-PAGE.

Endotoxin

Please contact us for more information.

Formulation

Lyophilized from a 0.22 µm filtered solution of 50mM Tris, 150mM NaCl, 0.1mM EDTA, 0.25mM DTT, 0.1mM AEBSF, pH8.0. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact



www.abclonal.com

Background

ERK2 is a protein serine/threonine kinase, 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. One study also suggests that this protein acts as a transcriptional repressor independent of its kinase activity. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions.

Basic Information

Description

Recombinant Human ERK2/MAPK1 Protein is produced by <I>E. coli</I> expression system. The target protein is expressed with sequence (Met1-Ser360) of human MAPK1 (Accession #NP_002736.3) fused with a GST tag at the N-terminus.

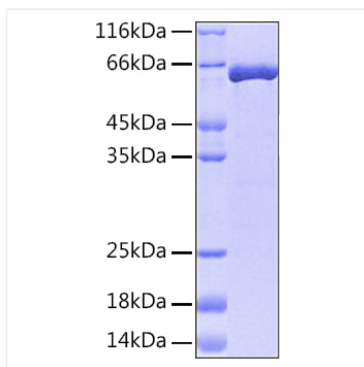
Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human MAPK1 (Catalog: RP00026LQ) at 1 µg/mL (100 µL/well) can bind ERK1/2 Rabbit mAb (Catalog: A4782) with a linear range of 0.017-4.92 ng/mL.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human ERK2/MAPK1
Protein was determined by SDS-
PAGE under reducing conditions with
Coomassie Blue.