

Product datasheet

Recombinant Human ERK2 protein ab43624

1 Image

Description

<b>Product name</b>	Recombinant Human ERK2 protein
<b>Purity</b>	> 90 % Densitometry.
<b>Expression system</b>	Escherichia coli
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human

Specifications

Our [Abpromise guarantee](#) covers the use of **ab43624** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	Western blot
<b>Form</b>	Liquid
<b>Additional notes</b>	ab43624 (Human ERK2 full length protein) can be utilized as a substrate for the active protein kinase <a href="#">ab60013</a> (Active human MEK2 full length protein)

Preparation and Storage

<b>Stability and Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.0038% EGTA, 0.00174% PMSF, 0.00385% DTT, 0.79% Tris HCl, 0.00292% EDTA, 25% Glycerol (glycerin, glycerine), 0.87% Sodium chloride
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General Info

<b>Function</b>	Involved in both the initiation and regulation of meiosis, mitosis, and postmitotic functions in differentiated cells by phosphorylating a number of transcription factors such as ELK1. Phosphorylates EIF4EBP1; required for initiation of translation. Phosphorylates microtubule-associated protein 2 (MAP2). Phosphorylates SPZ1 (By similarity). Phosphorylates heat shock
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factor protein 4 (HSF4) and ARHGEF2.

Acts as a transcriptional repressor. Binds to a [GC]AAA[GC] consensus sequence. Repress the expression of interferon gamma-induced genes. Seems to bind to the promoter of CCL5, DMP1, IFIH1, IFITM1, IRF7, IRF9, LAMP3, OAS1, OAS2, OAS3 and STAT1. Transcriptional activity is independent of kinase activity.

**Sequence similarities**

Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MAP kinase subfamily.  
Contains 1 protein kinase domain.

**Domain**

The TXY motif contains the threonine and tyrosine residues whose phosphorylation activates the MAP kinases.

**Post-translational modifications**

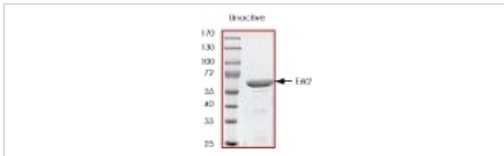
Dually phosphorylated on Thr-185 and Tyr-187, which activates the enzyme. Dephosphorylated by PTPRJ at Tyr-187.

**Cellular localization**

Nucleus.

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**Images**



The purity of ab43624 was determined to be >90% by SDS-PAGE.  
MW ~68kDa.

SDS-PAGE - Recombinant Human ERK2 protein  
(ab43624)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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