

### Recombinant human ERK1 protein ab105904

画像数 5

#### 製品の詳細

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製品名	Recombinant human ERK1 protein
生理活性	Specific activity 840 nmol/min/mg.
精製度	> 90 % Densitometry. ab105904 was determined to be >90% pure densitometry.
発現系	Escherichia coli
アクセッション番号	<b><u>P27361</u></b>
タンパク質長	Full length protein
Animal free	No
由来	Recombinant
生物種	Human
予測される分子量	72 kDa including tags
領域	1 to 379
タグ	GST tag N-Terminus

#### 特性

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Our **Abpromise guarantee** covers the use of **ab105904** in the following tested applications.

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

アプリケーション	Western blot Functional Studies
製品の状態	Liquid
備考	<b><u>ab64311</u></b> (Myelin Basic Protein protein) can be utilized as a substrate for assessing kinase activity

#### 前処理および保存

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保存方法および安定性	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.307% Glutathione, 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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This product is an active protein and may elicit a biological response in vivo, handle with caution.

## 関連情報

### 機能

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 ELK-1. Phosphorylates EIF4EBP1; required for initiation of translation. Phosphorylates microtubule-associated protein 2 (MAP2). Phosphorylates SPZ1 (By similarity). Phosphorylates heat shock factor protein 4 (HSF4).

### 配列類似性

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

Contains 1 protein kinase domain.

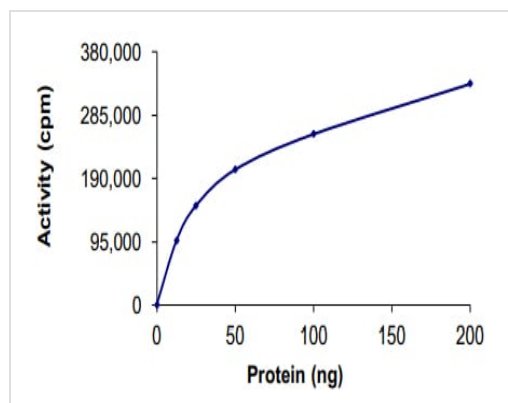
### ドメイン

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

### 翻訳後修飾

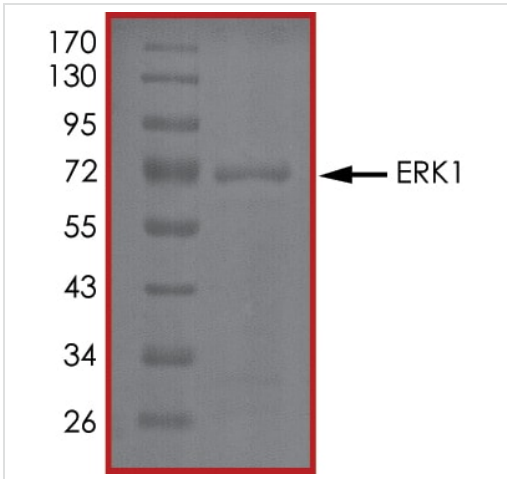
Dually phosphorylated on Thr-202 and Tyr-204, which activates the enzyme. Dephosphorylated by PTPRJ at Tyr-204.

## 画像



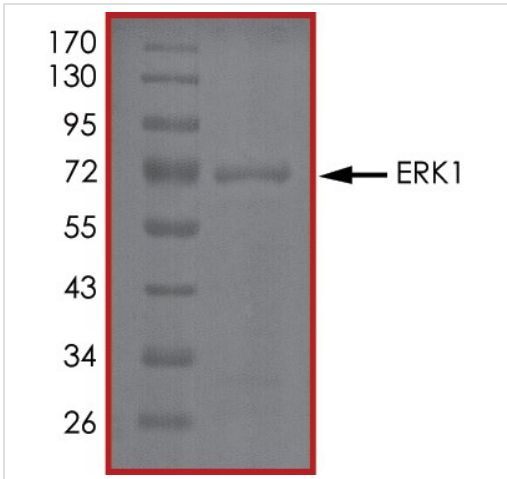
The specific activity of ERK1 (ab105904) was determined to be 715 nmol/min/mg as per activity assay protocol

Functional Studies - Recombinant human ERK1 protein (ab105904)



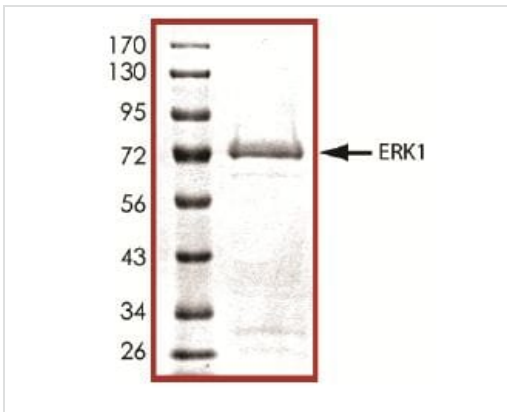
SDS PAGE analysis of ab105904

SDS-PAGE - Recombinant human ERK1 protein  
(ab105904)



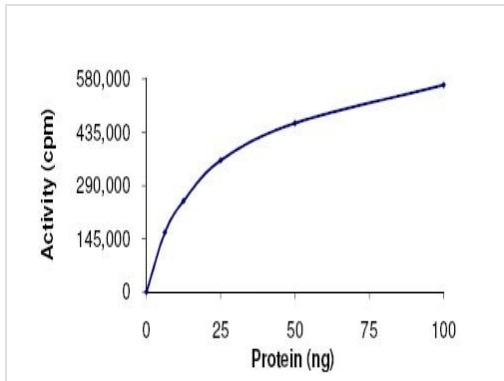
SDS PAGE analysis of ab105904

SDS-PAGE - Recombinant human ERK1 protein  
(ab105904)



ab105904 was determined to be >90% pure by densitometry.

SDS-PAGE - Recombinant human ERK1 protein  
(ab105904)



Functional Studies - Recombinant human ERK1 protein (ab105904)

The specific activity of ab105904 was determined to be 840 nmol/min/mg.

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

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