

# Recombinant human ERK2 protein ab155812

**1 References**   [画像数 3](#)

### 製品の詳細

製品名	Recombinant human ERK2 protein
精製度	> 95 % SDS-PAGE.
発現系	Escherichia coli
アクセッション番号	<b><u>NM_002745</u></b>
タンパク質長	Full length protein
Animal free	No
由来	Recombinant
生物種	Human
タグ	GST tag N-Terminus

### 特性

Our **Abpromise guarantee** covers the use of **ab155812** 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	Functional Studies
製品の状態	Liquid
備考	ab155812 has been activated by MEK1 in vitro. 630 nmol/min/mg <b><u>ab64311</u></b> (Myelin Basic Protein protein) can be utilized as a substrate for assessing kinase activity

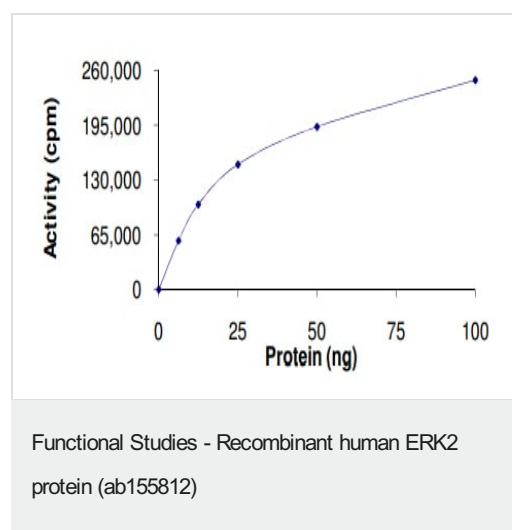
### 前処理および保存

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: 7.5 Constituents: 0.30732% Glutathione, 0.004% DTT, 0.788% Tris HCl, 0.003% EDTA, 25% Glycerol (glycerin, glycerine), 0.8766% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.
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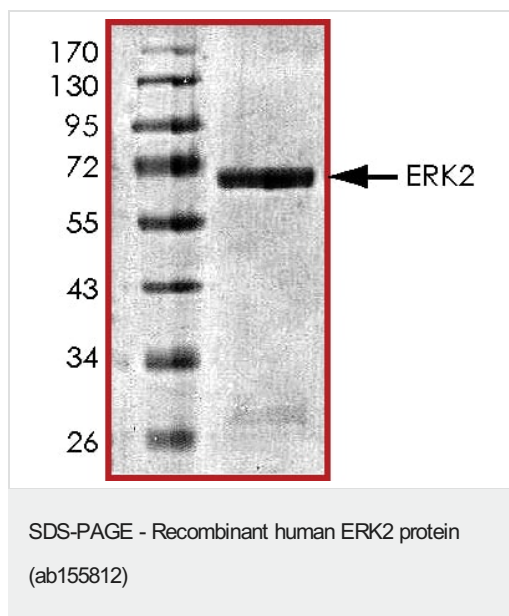
### 関連情報

<b>機能</b>	<p>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 factor protein 4 (HSF4) and ARHGEF2.</p> <p>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.</p>
<b>配列類似性</b>	<p>Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MAP kinase subfamily.</p> <p>Contains 1 protein kinase domain.</p>
<b>ドメイン</b>	<p>The TXY motif contains the threonine and tyrosine residues whose phosphorylation activates the MAP kinases.</p>
<b>翻訳後修飾</b>	<p>Dually phosphorylated on Thr-185 and Tyr-187, which activates the enzyme. Dephosphorylated by PTPRJ at Tyr-187.</p>
<b>細胞内局在</b>	<p>Nucleus.</p>

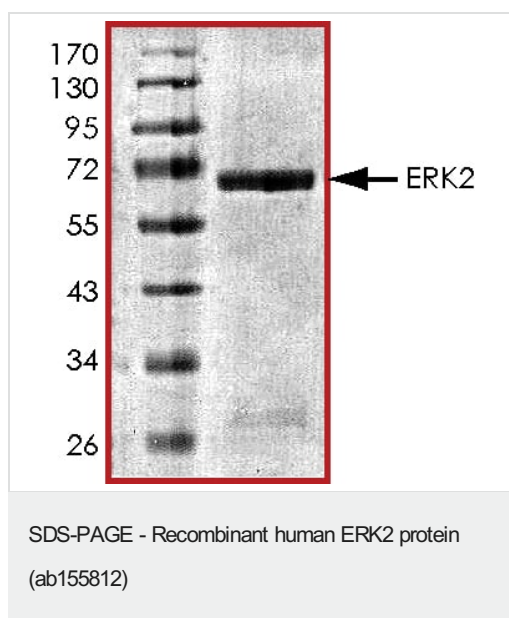
## 画像



The specific activity of ERK2 (ab155812) was determined to be 630 nmol/min/mg as per activity assay protocol



SDS PAGE analysis of ab155812



SDS PAGE analysis of ab155812

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

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