

Product datasheet

Recombinant human Serine/threonine-protein kinase 4 ab60337

画像数 2

製品の概要

製品名 Recombinant human Serine/threonine-protein kinase 4  
 タンパク質長 Full length protein

法規制情報

カルタヘナ法

製品の詳細

由来 Recombinant  
 由来 Baculovirus infected Sf9 cells  
 アミノ酸配列  
 生物種 Human

特性

Our [Abpromise guarantee](#) covers the use of **ab60337** 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  
 SDS-PAGE  
 製品の状態 Liquid  
 備考 [ab204853](#) (IRS1 peptide) 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.  
 Preservative: None  
 Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, pH 7.5  
 This product is an active protein and may elicit a biological response in vivo, handle with caution.

## 関連情報

### 機能

Stress-activated, pro-apoptotic kinase which, following caspase-cleavage, enters the nucleus and induces chromatin condensation followed by internucleosomal DNA fragmentation. Key component of the Hippo signaling pathway which plays a pivotal role in organ size control and tumor suppression by restricting proliferation and promoting apoptosis. The core of this pathway is composed of a kinase cascade wherein MST1/MST2, in complex with its regulatory protein SAV1, phosphorylates and activates LATS1/2 in complex with its regulatory protein MOB1, which in turn phosphorylates and inactivates YAP1 oncoprotein and WWTR1/TAZ. Phosphorylation of YAP1 by LATS2 inhibits its translocation into the nucleus to regulate cellular genes important for cell proliferation, cell death, and cell migration. MST1/MST2 are required to repress proliferation of mature hepatocytes, to prevent activation of facultative adult liver stem cells (oval cells), and to inhibit tumor formation (By similarity). Phosphorylates 'Ser-14' of histone H2B (H2BS14ph) during apoptosis. Phosphorylates FOXO3 upon oxidative stress, which results in its nuclear translocation and cell death initiation.

### 組織特異性

Ubiquitously expressed.

### 配列類似性

Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily. Contains 1 protein kinase domain. Contains 1 SARAH domain.

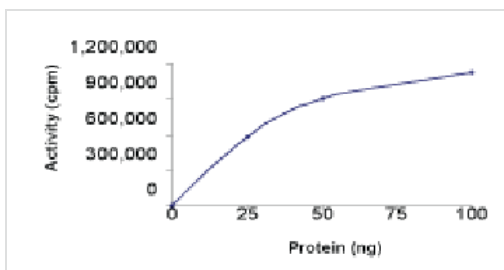
### 翻訳後修飾

Autophosphorylated on serine and threonine residues.

### 細胞内局在

Cytoplasm. Nucleus. The caspase-cleaved form cycles between the nucleus and cytoplasm.

## 画像



Sample Kinase Activity Plot.

Functional Studies - Active human Serine/threonine-protein kinase 4 full length protein (ab60337)



ab60337 on SDS-PAGE, MW ~83kDa.

SDS-PAGE - Active human Serine/threonine-protein kinase 4 full length protein (ab60337)

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

## **Our Abpromise to you: Quality guaranteed and expert technical support**

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <http://www.abcam.co.jp/abpromise> or contact our technical team.

## **Terms and conditions**

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors