# abcam

### Product datasheet

# Recombinant human ERK5 protein ab126913

1 References 画像数 5

製品の詳細

製品名 Recombinant human ERK5 protein

生理活性 The specific activity of ab126913 was determined to be 11 nmol/min/mg

精製度 > 75 % Densitometry.

Purity was determined to be >75% by densitometry. Affinity purified.

**発現系** Baculovirus infected Sf9 cells

アクセッション番号 Q13164

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 132 kDa including tags

**領域** 1 to 816

特性

Our Abpromise guarantee covers the use of ab126913 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

Western blot SDS-PAGE

製品の状態 Liquid

備考 <u>ab64311</u> (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: 7.50

Constituents: 0.31% Glutathione, 0.002% PMSF, 0.004% DTT, 0.79% Tris HCl, 0.003% EDTA,

25% Glycerol, 0.88% Sodium chloride

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#### 関連情報

#### 機能 Plays a role in various cellular processes such as proliferation, differentiation and cell survival. The

upstream activator of MAPK7 is the MAPK kinase MAP2K5. Upon activation, it translocates to the nucleus and phosphorylates various downstream targets including MEF2C. EGF activates MAPK7 through a Ras-independent and MAP2K5-dependent pathway. May have a role in muscle cell differentiation. May be important for endothelial function and maintenance of blood vessel integrity. MAP2K5 and MAPK7 interact specifically with one another and not with MEK1/ERK1 or

MEK2/ERK2 pathways.

組織特異性 Expressed in many adult tissues. Abundant in heart, placenta, lung, kidney and skeletal muscle.

Not detectable in liver.

**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 second proline-rich region may interact with actin targeting the kinase to a specific location in

the cell.

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

MAP kinases.

翻訳後修飾 Dually phosphorylated on Thr-219 and Tyr-221, which activates the enzyme (By similarity).

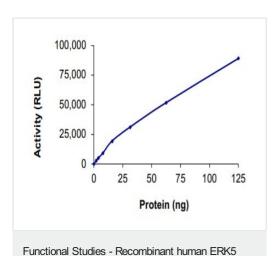
Autophosphorylated in vitro on threonine and tyrosine residues when the C-terminal part of the

kinase, which could have a regulatory role, is absent.

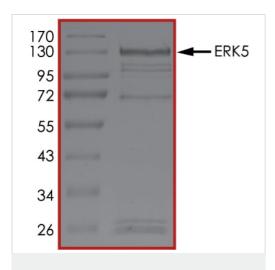
細胞内局在 Cytoplasm. Nucleus. Translocates to the nucleus upon activation.

## 画像

protein (ab126913)

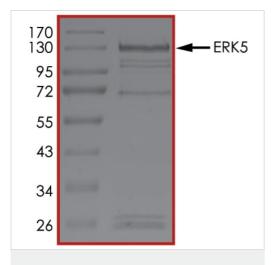


The specific activity of ERK5 (ab126913) was determined to be 2.5 nmol/min/mg as per activity assay protocol and was equivalent to 12.7 nmol/min/mg as per radiometric assay



SDS PAGE analysis of ab126913

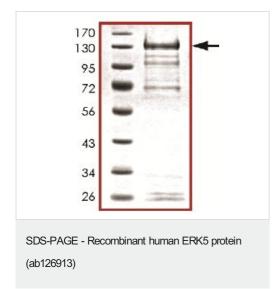
SDS-PAGE - Recombinant human ERK5 protein (ab126913)

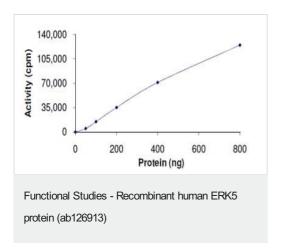


SDS-PAGE - Recombinant human ERK5 protein (ab126913)

SDS PAGE analysis of ab126913







The specific activity of ab126913 was determined to be 11 nmol/min/mg

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