

Recombinant human SGK1 protein ab60883

画像数 5

製品の詳細

製品名	Recombinant human SGK1 protein
生理活性	Specific Activity: 117 nmol/min/mg.
精製度	> 95 % SDS-PAGE. Purity: >95% as determined by densitometry. Affinity purified.
発現系	Baculovirus infected Sf9 cells
アクセッション番号	<u>O00141-1</u>
タンパク質長	Protein fragment
Animal free	No
由来	Recombinant
生物種	Human
予測される分子量	73 kDa
領域	60 to 431
タグ	GST tag N-Terminus
配列の追加情報	Recombinant fragment, corresponding to amino acids 60-end of Human SGK1.

特性

Our **Abpromise guarantee** covers the use of **ab60883** 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	SDS-PAGE Functional Studies
製品の状態	Liquid
備考	<u>ab204849</u> (AKT1 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. pH: 7.50 Constituents: 0.0038% EGTA, 0.00174% PMSF, 0.00385% DTT, 0.79% Tris HCl, 0.00292%
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EDTA, 25% Glycerol (glycerin, glycerine), 0.87% Sodium chloride

This product is an active protein and may elicit a biological response in vivo, handle with caution.

関連情報

機能

Protein kinase that plays an important role in cellular stress response. Activates certain potassium, sodium, and chloride channels, suggesting an involvement in the regulation of processes such as cell survival, neuronal excitability and renal sodium excretion. Sustained high levels and activity may contribute to conditions such as hypertension and diabetic nephropathy. Mediates cell survival signals, phosphorylates and negatively regulates pro-apoptotic FOXO3A. Phosphorylates NEDD4L, which leads to its inactivation and to the subsequent activation of various channels and transporters such as ENaC, KCNA3/Kv1.3 or EAAT1. Isoform 2 exhibited a greater effect on cell plasma membrane expression of ENaC and Na(+) transport than isoform 1.

組織特異性

Expressed in most tissues with highest levels in the pancreas, followed by placenta, kidney and lung. Isoform 2 is strongly expressed in brain and pancreas, weaker in heart, placenta, lung, liver and skeletal muscle.

配列類似性

Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family.
Contains 1 AGC-kinase C-terminal domain.
Contains 1 protein kinase domain.

ドメイン

Isoform 2 subcellular localization at the plasma membrane is mediated by the sequences within the first 120 amino acids.

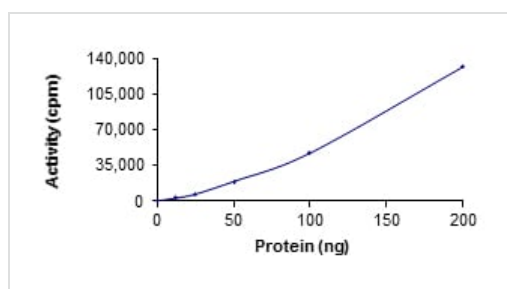
翻訳後修飾

Regulated by phosphorylation. Phosphoinositide 3-kinase (PI3-kinase) pathway promotes phosphorylation at Ser-422 which in turn increases the phosphorylation of Thr-256 by PDPK1. Ubiquitinated by NEDD4L; which promotes proteasomal degradation. Ubiquitinated by SYVN1 at the endoplasmic reticulum; which promotes rapid proteasomal degradation and maintains a high turnover rate in resting cells. Isoform 2 shows enhanced stability. Isoform 2 resistance to proteasomal degradation is mediated by the sequences within the first 120-amino acid.

細胞内局在

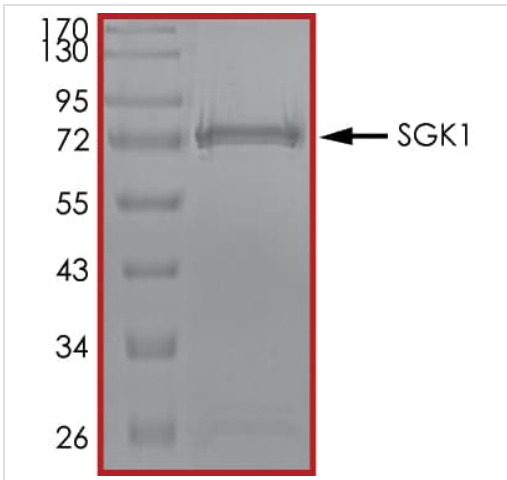
Cell membrane and Cytoplasm. Nucleus. Endoplasmic reticulum. Nuclear, upon phosphorylation.

画像



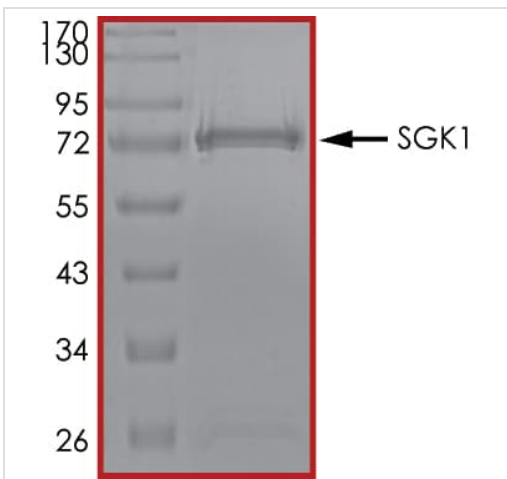
The specific activity of SGK1 (ab60883) was determined to be 99 nmol/min/mg as per activity assay protocol

Functional Studies - Recombinant human SGK1 protein (ab60883)



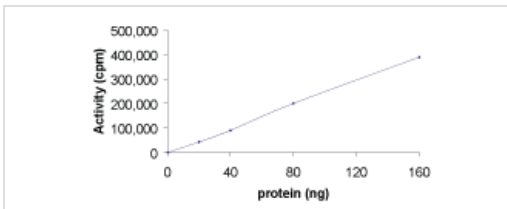
SDS-PAGE - Recombinant human SGK1 protein (ab60883)

SDS PAGE analysis of ab60883



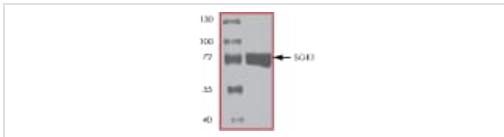
SDS-PAGE - Recombinant human SGK1 protein (ab60883)

SDS PAGE analysis of ab60883



Functional Studies - Recombinant human SGK1 protein (ab60883)

Sample Kinase Activity Plot.



ab60883 on SDS-PAGE, MW ~73 kDa.

SDS-PAGE - Recombinant human SGK1 protein
(ab60883)

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