

Anti-SGK1 (phospho S422) antibody ab55281

★★★★★ [2 Abreviews](#) [24 References](#) [3 图像](#)

概述

产品名称	Anti-SGK1 (phospho S422)抗体
描述	兔多克隆抗体to SGK1 (phospho S422)
宿主	Rabbit
经测试应用	适用于: WB, IHC-P, ELISA, ICC/IF
种属反应性	与反应: Mouse, Rat, Human
免疫原	Synthetic peptide corresponding to Human SGK1 (phospho S422).
常规说明	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
存储溶液	pH: 7 Preservative: 0.02% Sodium azide Constituents: 50% Glycerol, 0.87% Sodium chloride, PBS
纯度	Immunogen affinity purified
纯化说明	The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee

Abpromise™ 承诺保证使用ab55281于以下的经测试应用

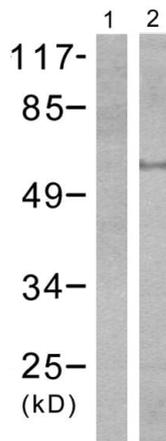
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★★ (1)	1/500 - 1/1000. Detects a band of approximately 60 kDa (predicted molecular weight: 49 kDa).
IHC-P	★★★★★ (1)	Use at an assay dependent concentration.
ELISA		Use at an assay dependent concentration.
ICC/IF		Use a concentration of 1 - 5 µg/ml.

靶标

功能	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.
组织特异性	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.
序列相似性	Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. Contains 1 AGC-kinase C-terminal domain. Contains 1 protein kinase domain.
结构域	Isoform 2 subcellular localization at the plasma membrane is mediated by the sequences within the first 120 amino acids.
翻译后修饰	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.
细胞定位	Cell membrane and Cytoplasm. Nucleus. Endoplasmic reticulum. Nuclear, upon phosphorylation.

图片



Western blot - Anti-SGK1 (phospho S422) antibody (ab55281)

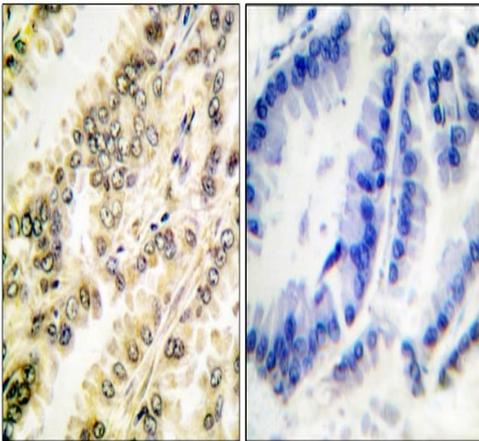
All lanes : Anti-SGK1 (phospho S422) antibody (ab55281) at 1/500 dilution

Lane 1 : Extracts from HeLa (human epithelial cell line from cervix adenocarcinoma) cells treated with Insulin (0.01 U/ml, 15 minutes) plus immunizing phosphopeptide

Lane 2 : Extracts from HeLa (human epithelial cell line from cervix adenocarcinoma) cells treated with Insulin (0.01 U/ml, 15 minutes)

Developed using the ECL technique.

Predicted band size: 49 kDa

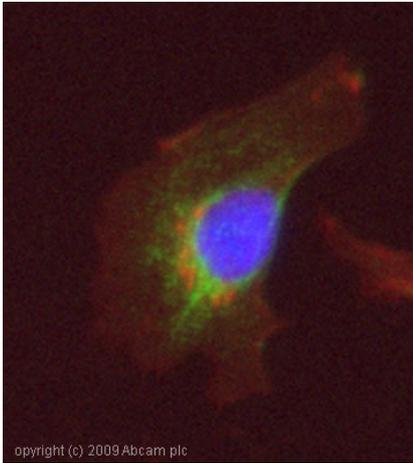


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SGK1 (phospho S422) antibody (ab55281)

Immunohistochemical analysis of SGK1 (phospho S422) expression in human breast carcinoma tissue using ab55281 at a 1/50 dilution.

Left: No phosphopeptide.

Right: Sample treated with immunizing phosphopeptide.



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Immunocytochemistry/ Immunofluorescence - Anti-SGK1 (phospho S422) antibody (ab55281)

ICC/IF image of ab55281 stained HeLa (human epithelial cell line from cervix adenocarcinoma) cells. The cells were fixed in 4% PFA for 10 minutes and then incubated in 1% BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1 hour to permeabilize the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab55281, 1 μ g/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor[®] 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1 hour. Alexa Fluor[®] 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1 hour. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43 μ M.

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