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# Datasheet for ABIN6256329 anti-SGK1 antibody (pSer422)

13 Images



### Overview

Quantity:	100 µL
Target:	SGK1
Binding Specificity:	pSer422
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SGK1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

## Product Details

Immunogen:	A synthesized peptide derived from human SGK1 around the phosphorylation site of Ser422.
Isotype:	lgG
Specificity:	Phospho-SGK1 (Ser422) Antibody detects endogenous levels of SGK1 only when phosphorylated at Serine 422.
Predicted Reactivity:	Pig,Zebrafish,Bovine,Horse,Sheep,Rabbit,Dog,Chicken,Xenopus
Purification:	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.

### Target Details

Target:	SGK1
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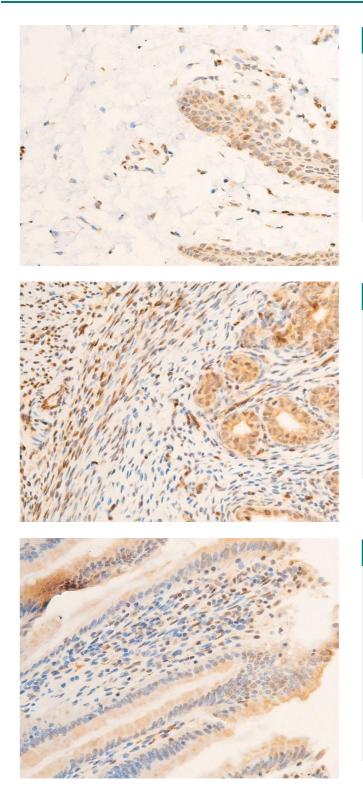
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Target Details	
Alternative Name:	SGK1 (SGK1 Products)
Background:	Description: Serine/threonine-protein kinase which is involved in the regulation of a wide variety
	of ion channels, membrane transporters, cellular enzymes, transcription factors, neuronal
	excitability, cell growth, proliferation, survival, migration and apoptosis. Plays an important role
	in cellular stress response. Contributes to regulation of renal Na+ retention, renal K+
	elimination, salt appetite, gastric acid secretion, intestinal Na+/H+ exchange and nutrient
	transport, insulin-dependent salt sensitivity of blood pressure, salt sensitivity of peripheral
	glucose uptake, cardiac repolarization and memory consolidation. Up-regulates Na+ channels:
	SCNN1A/ENAC, SCN5A and ASIC1/ACCN2, K+ channels: KCNJ1/ROMK1, KCNA1-5, KCNQ1-5
	and KCNE1, epithelial Ca2+ channels: TRPV5 and TRPV6, chloride channels: BSND, CLCN2 and
	CFTR, glutamate transporters: SLC1A3/EAAT1, SLC1A2 /EAAT2, SLC1A1/EAAT3,
	SLC1A6/EAAT4 and SLC1A7/EAAT5, amino acid transporters: SLC1A5/ASCT2, SLC38A1/SN1
	and SLC6A19, creatine transporter: SLC6A8, Na+/dicarboxylate cotransporter:
	SLC13A2/NADC1, Na+-dependent phosphate cotransporter: SLC34A2/NAPI-2B, glutamate
	receptor: GRIK2/GLUR6. Up-regulates carriers: SLC9A3/NHE3, SLC12A1/NKCC2,
	SLC12A3/NCC, SLC5A3/SMIT, SLC2A1/GLUT1, SLC5A1/SGLT1 and SLC15A2/PEPT2.
	Regulates enzymes: GSK3A/B, PMM2 and Na+/K+ ATPase, and transcription factors: CTNNB1
	and nuclear factor NF-kappa-B. Stimulates sodium transport into epithelial cells by enhancing
	the stability and expression of SCNN1A/ENAC. This is achieved by phosphorylating the
	NEDD4L ubiquitin E3 ligase, promoting its interaction with 14-3-3 proteins, thereby preventing i
	from binding to SCNN1A/ENAC and targeting it for degradation. Regulates store-operated
	Ca(+2) entry (SOCE) by stimulating ORAI1 and STIM1. Regulates KCNJ1/ROMK1 directly via its
	phosphorylation or indirectly via increased interaction with SLC9A3R2/NHERF2.
	Phosphorylates MDM2 and activates MDM2-dependent ubiquitination of p53/TP53.
	Phosphorylates MAPT/TAU and mediates microtubule depolymerization and neurite formation
	in hippocampal neurons. Phosphorylates SLC2A4/GLUT4 and up-regulates its activity.
	Phosphorylates APBB1/FE65 and promotes its localization to the nucleus. Phosphorylates
	MAPK1/ERK2 and activates it by enhancing its interaction with MAP2K1/MEK1 and
	MAP2K2/MEK2. Phosphorylates FBXW7 and plays an inhibitory role in the NOTCH1 signaling.
	Phosphorylates FOX01 resulting in its relocalization from the nucleus to the cytoplasm.
	Phosphorylates FOXO3, promoting its exit from the nucleus and interference with FOXO3-
	dependent transcription. Phosphorylates BRAF and MAP3K3/MEKK3 and inhibits their activity.
	Phosphorylates SLC9A3/NHE3 in response to dexamethasone, resulting in its activation and
	increased localization at the cell membrane. Phosphorylates CREB1. Necessary for vascular
	remodeling during angiogenesis. Sustained high levels and activity may contribute to condition

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### Target Details

	such as hypertension and diabetic nephropathy. Isoform 2 exhibited a greater effect on cell plasma membrane expression of SCNN1A/ENAC and Na+ transport than isoform 1.
	Gene: SGK1
Molecular Weight:	54kDa
Gene ID:	6446
UniProt:	000141
Pathways:	MAPK Signaling, Notch Signaling, Steroid Hormone Mediated Signaling Pathway
Application Details	
Application Notes:	WB 1:500-1:2000, IHC 1:50-1:1000, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months



#### Immunohistochemistry

**Image 1.** ABIN6267218 at 1/100 staining human skin tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

#### Immunohistochemistry

**Image 2.** ABIN6267218 at 1/100 staining rat uterine tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

#### Immunohistochemistry

**Image 3.** ABIN6267218 at 1/100 staining rat intestinal tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

Please check the product details page for more images. Overall 13 images are available for ABIN6256329.

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