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Rabbit Anti-Phospho-SGK1 (Ser78) antibody

SL3395R

Product Name:	Phospho-SGK1 (Ser78)
Chinese Name:	磷酸化糖皮质激素调节激酶1抗体
Alias:	SGK1 (phospho S78); p-SGK1 (phospho S78); Serine/threonine protein kinase SGK; Serine/threonine protein kinase Sgk1; Serine/threonine-protein kinase Sgk1; Serum and glucocorticoid regulated kinase; Serum/glucocorticoid regulated kinase 1; Serum/glucocorticoid regulated kinase; Serum/glucocorticoid-regulated kinase 1; SGK 1; SGK; SGK1; SGK1_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=2ug/TestIF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	49kDa
Cellular localization:	The nucleuscytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated Synthesised phosphopeptide derived from human SGK1 around the phosphorylation site of Ser78:PP(p-S)PS
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	SGK1 is a protein kinase that plays an important role in cellular stress response. SGK1

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	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 of SGK1 and activity may contribute to conditions such as hypertension and diabetic nephropathy. This protein also mediates cell survival signals, as it has been shown to phosphorylate and negatively regulate the pro apoptotic FOXO3A protein. Ser 422 is a critical site on the protein and may be involved in its activation. **Function:** 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. **Subunit:** Interacts with NEDD4 and NEDD4L. **Subcellular Location:** Isoform 2: Cell membrane. Cytoplasm. Nucleus. Endoplasmic reticulum. Note=Nuclear, upon phosphorylation. **Tissue Specificity:** 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. **Post-translational modifications:** 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. **Similarity:** Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. Contains 1 AGC-kinase C-terminal domain. Contains 1 protein kinase domain.

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	SWISS: O00141 **Gene ID:** 6446 **Database links:** Entrez Gene: 6446Human Entrez Gene: 20393Mouse Entrez Gene: 29517Rat Omim: 602958Human SwissProt: O00141Human SwissProt: Q9WVC6Mouse SwissProt: Q06226Rat Unigene: 510078Human Unigene: 28405Mouse Unigene: 4636Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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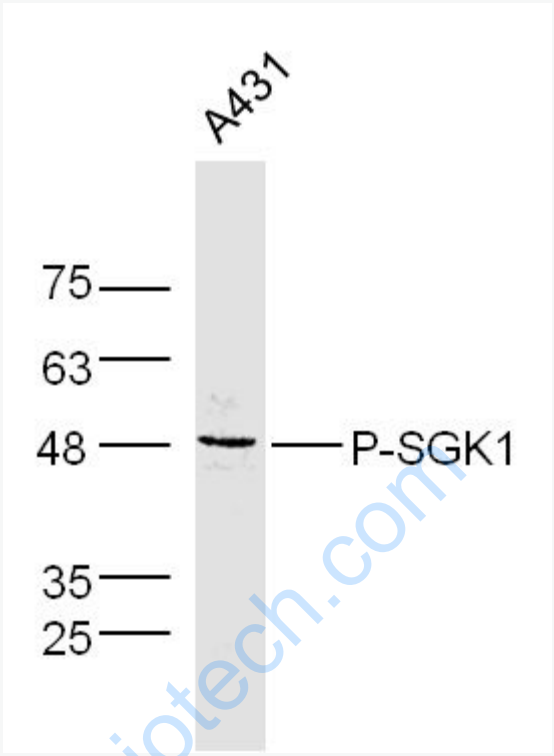
Picture:	 Sample: A431 lysate at 30 ug Primary: Rabbit Anti-Phospho-SGK1 (SL3395R) at 1:300 Secondary:IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size:49 kD Observed band size:49 kD

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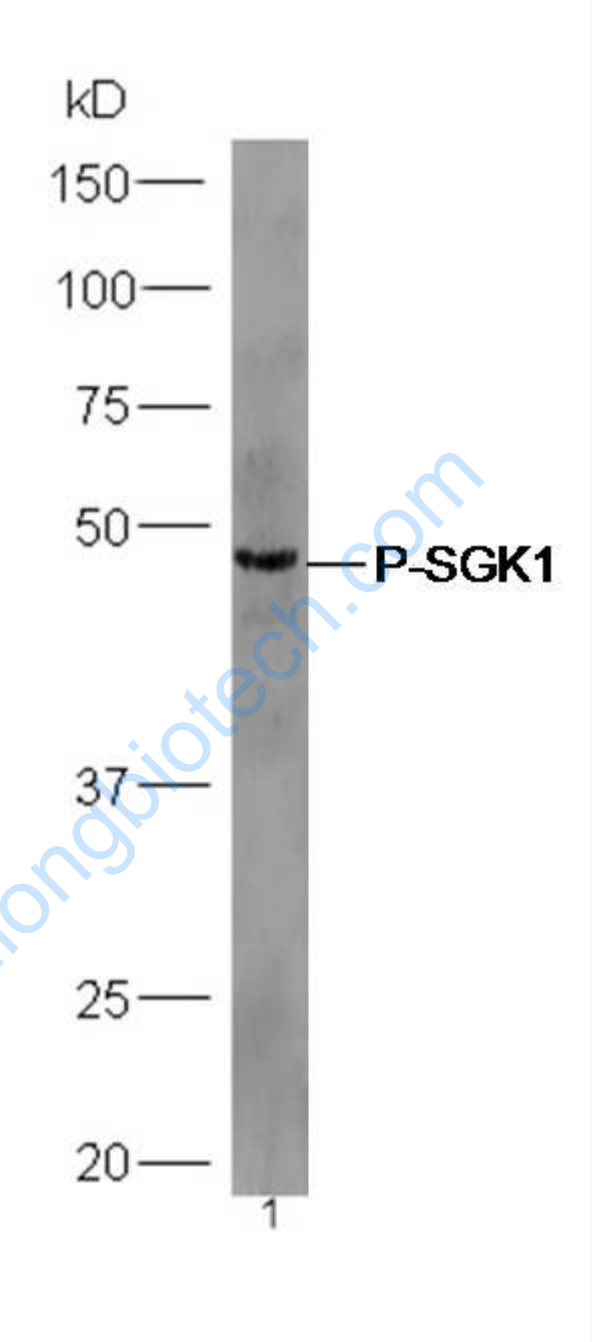

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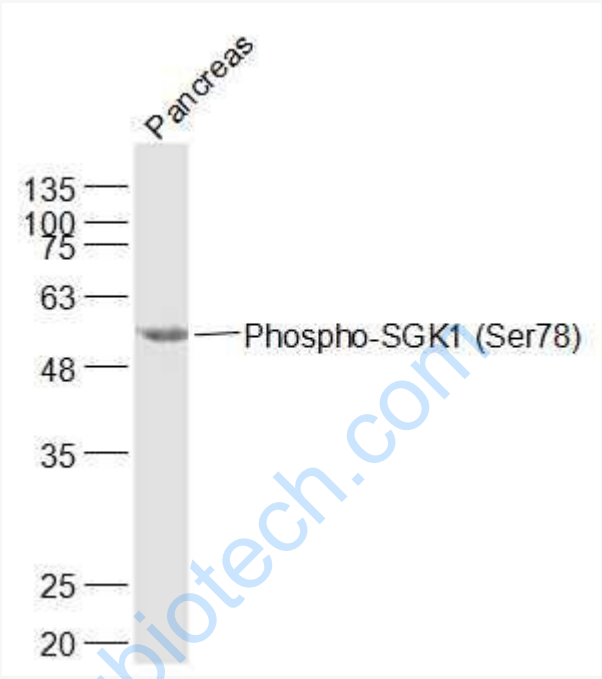
Sample: A431 lysate at 30ug

Primary: Rabbit Anti-Phospho-SGK1 (SL3395R) at 1:300

Secondary: HRP conjugated Goat-Anti-rabbit IgG(SL3395R) at 1: 5000

Predicted band size:49 kD

Observed band size:49 kD



Sample:

Pancreas (Mouse) Lysate at 40 ug

Primary: Anti-Phospho-SGK1 (Ser78) (SL3395R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 49 kD

Observed band size: 59 kD

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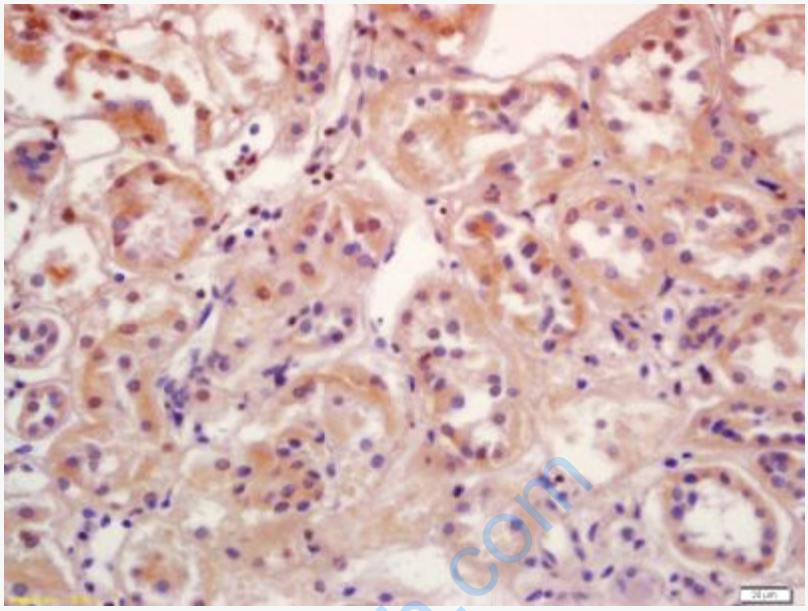

Tissue/cell: human kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;

Incubation: Anti-Phospho-SGK1(Ser78) Polyclonal Antibody, Unconjugated(SL3395R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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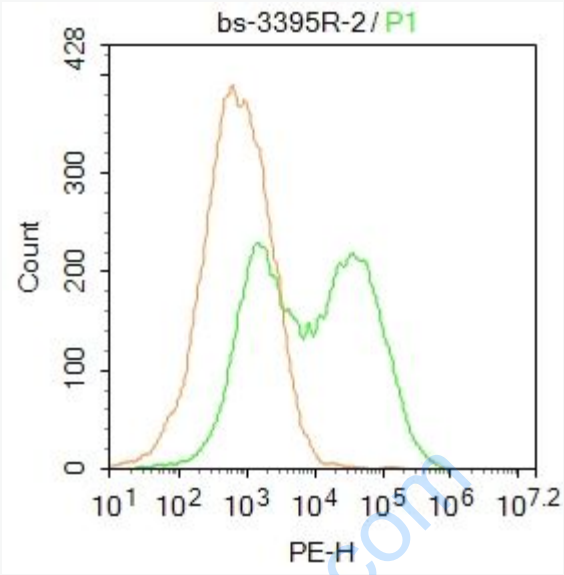

Blank control: Mouse spleen.

Primary Antibody (green line): Rabbit Anti-SGK1 antibody (SL3395R)

Dilution: 2μg /10^6 cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody : Goat anti-rabbit IgG-PE

Dilution: 1μg /test.

Protocol

The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at-20℃. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

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