

## Rabbit SGK polyclonal Antibody | anti-SGK antibody

SGK (Ser78) Antibody

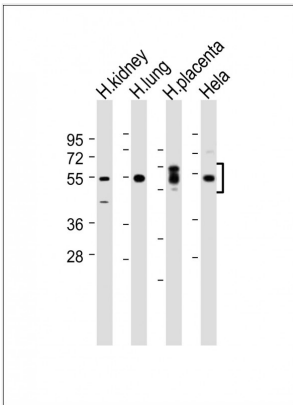
| CATALOG # | HOST   | REACTIVITY                                                                 | APPLICATIONS                     |
|-----------|--------|----------------------------------------------------------------------------|----------------------------------|
| AAA290979 | Rabbit | Human<br>Predicted Reactivity: Bovine, Chicken, Monkey, Mouse, Rabbit, Rat | Immunofluorescence, Western Blot |

### PRODUCT SYNONYMS

SGK; polyclonal Antibody; SGK (Ser78) Antibody; Purified Rabbit Polyclonal Antibody (Pab); Serine/threonine-protein kinase Sgk1; 2.7.11.1; Serum/glucocorticoid-regulated kinase 1; SGK1; anti-SGK antibody

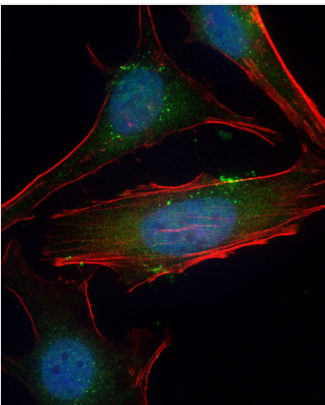
### PRODUCT SPECIFICATIONS

|                                               |                                                                                                                                                                               |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                          | Rabbit                                                                                                                                                                        |
| Reactivity                                    | Human<br>Predicted Reactivity: Bovine, Chicken, Monkey, Mouse, Rabbit, Rat                                                                                                    |
| Clonality                                     | polyclonal                                                                                                                                                                    |
| Isotype                                       | Rabbit Ig                                                                                                                                                                     |
| Clone Number                                  | RB57649                                                                                                                                                                       |
| Specificity                                   | This SGK (Ser78) antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 70-103 amino acids from the human region of human SGK (Ser78). |
| Form/Format                                   | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.  |
| Applicable Applications for anti-SGK antibody | IF (Immunofluorescence), WB (Western Blot)                                                                                                                                    |
| Antigen Source                                | Human                                                                                                                                                                         |
| Preparation and Storage                       | Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.                         |



WB (Western Blot)

All lanes : Anti-SGK (Ser78) Antibody at 1:2000 dilution  
Lane 1: Human kidney lysate  
Lane 2: Human lung lysate  
Lane 3: Human placenta lysate  
Lane 4: HeLa whole cell lysate  
Lysates/proteins at 20 ug per lane.  
Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.  
Predicted band size : 49 kDa  
Blocking/Dilution buffer: 5% NFDm/TBST.



IF (Immunofluorescence)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (human cervical epithelial adenocarcinoma cell line) cells labeling SGK with AP3924a at 1/25 dilution, followed by Dylight 488-conjugated goat anti-rabbit IgG (NK179883) secondary antibody at 1/200 dilution (green). Immunofluorescence image showing cytoplasm and nucleus staining on HeLa cell line. Cytoplasmic actin is detected with Dylight 554 Phalloidin (PD18466410) at 1/100 dilution (red). The nuclear counter stain is DAPI (blue).

ADDITIONAL INFORMATION

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| Related Product Information for anti-SGK antibody | <p>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 Ca(2+) 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 it 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 FOXO1 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 conditions 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.</p> |
| Product Categories/Family for anti-SGK antibody   | Primary Antibodies; Developmental Biology; Signal Transduction; Stem Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| References                                        | Waldegger S.,et al.Proc. Natl. Acad. Sci. U.S.A. 94:4440-4445(1997).Waldegger S.,et al.Genomics 51:299-302(1998).Raikwar N.S.,et al.Am. J. Physiol. 295:F1440-F1448(2008).Hall B.A.,et al.Submitted (AUG-2008) to the EMBL/GenBank/DDBJ databases.Kim M.K.,et al.Submitted (MAY-1999) to the EMBL/GenBank/DDBJ databases.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                     |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 219521876                                                                                                                           |
| NCBI GeneID                      | 6446                                                                                                                                |
| NCBI Accession #                 | NP_001137148.1                                                                                                                      |
| NCBI GenBank Nucleotide #        | NM_001143676.1                                                                                                                      |
| UniProt Accession #              | O00141; A7MB74; Q6U1I9; Q4R633; Q9WVC6; Q9XT18; Q06226                                                                              |
| Molecular Weight                 | 48,942 Da                                                                                                                           |
| NCBI Official Full Name          | serine/threonine-protein kinase Sgk1 isoform 2                                                                                      |
| NCBI Official Synonym Full Names | serum/glucocorticoid regulated kinase 1                                                                                             |
| NCBI Official Symbol             | SGK1                                                                                                                                |
| NCBI Official Synonym Symbols    | SGK                                                                                                                                 |
| NCBI Protein Information         | serine/threonine-protein kinase Sgk1; Sgk1 variant i3; serine/threonine protein kinase SGK; serum/glucocorticoid-regulated kinase 1 |
| UniProt Protein Name             | Serine/threonine-protein kinase Sgk1                                                                                                |
| UniProt Gene Name                | <b>SGK1</b>                                                                                                                         |
| UniProt Synonym Gene Names       | SGK                                                                                                                                 |
| UniProt Entry Name               | SGK1_HUMAN                                                                                                                          |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/rabbit-polyclonal-bovine-chicken-human-monkey-mouse-ovine-rabbit-rat-antibody/sgk/290979>