

**SGK3 Antibody (Center)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP7949b**

**Specification**

**SGK3 Antibody (Center) - Product Information**

Application	<b>WB, IHC-P,E</b>
Primary Accession	<a href="#">O96BR1</a>
Reactivity	<b>Human</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit Ig</b>
Antigen Region	<b>108-139</b>

**SGK3 Antibody (Center) - Additional Information**

**Gene ID** 100533105;23678

**Other Names**

Serine/threonine-protein kinase Sgk3,  
Cytokine-independent survival kinase,  
Serum/glucocorticoid-regulated kinase 3,  
Serum/glucocorticoid-regulated kinase-like,  
SGK3, CISK, SGKL

**Target/Specificity**

This SGK3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 108-139 amino acids from the Central region of human SGK3.

**Dilution**

WB~~1:1000  
IHC-P~~1:50~100

**Format**

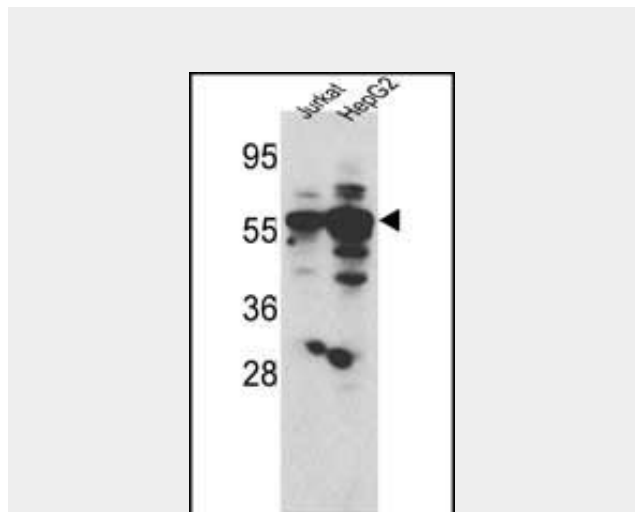
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

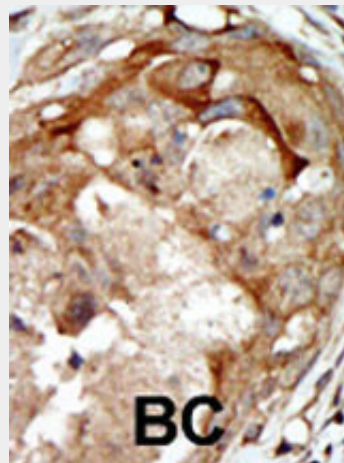
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

SGK3 Antibody (Center) is for research use



Western blot analysis of hSGKL-K123 (SGK3) (Cat.#AP7949b) in Jurkat and HepG2 cell line lysates (35ug/lane). SGKL (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

**SGK3 Antibody (Center) - Background**

only and not for use in diagnostic or therapeutic procedures.

#### **SGK3 Antibody (Center) - Protein Information**

**Name** SGK3

**Synonyms** CISK, SGKL

#### **Function**

Serine/threonine-protein kinase which is involved in the regulation of a wide variety of ion channels, membrane transporters, cell growth, proliferation, survival and migration. Up-regulates Na(+) channels: SCNN1A/ENAC and SCN5A, K(+) channels: KCNA3/KV1.3, KCNE1, KCNQ1 and KCNH2/HERG, epithelial Ca(2+) channels: TRPV5 and TRPV6, chloride channel: BSND, creatine transporter: SLC6A8, Na(+)/dicarboxylate cotransporter: SLC13A2/NADC1, Na(+)-dependent phosphate cotransporter: SLC34A2/NAPI-2B, amino acid transporters: SLC1A5/ASCT2 and SLC6A19, glutamate transporters: SLC1A3/EAAT1, SLC1A6/EAAT4 and SLC1A7/EAAT5, glutamate receptors: GRIA1/GLUR1 and GRIK2/GLUR6, Na(+)/H(+) exchanger: SLC9A3/NHE3, and the Na(+)/K(+) ATPase. Plays a role in the regulation of renal tubular phosphate transport and bone density. Phosphorylates NEDD4L and GSK3B. Positively regulates ER transcription activity through phosphorylation of FLII. Negatively regulates the function of ITCH/AIP4 via its phosphorylation and thereby prevents CXCR4 from being efficiently sorted to lysosomes.

#### **Cellular Location**

Cytoplasmic vesicle. Early endosome. Recycling endosome. Note=Endosomal localization is a prerequisite for complete kinase activity. It is essential for its colocalization with the kinase responsible for phosphorylating Ser-486 thus allowing PDPK1 phosphorylation of Thr-320 resulting in complete activation of SGK3. Localized in vesicle-like structures and in the early endosome. Colocalizes with SLC9A3/NHE3 in the recycling endosomes

#### **Tissue Location**

Expressed in most tissues with highest levels in pancreas, kidney liver, heart and

SGK3, a Ser/Thr protein kinase, is similar to serum- and glucocorticoid-induced protein kinase (SGK), but this gene product is not induced by serum or glucocorticoids.

Expression is induced in response to signals that activate phosphatidylinositol 3-kinase, which is also true for SGK.

#### **SGK3 Antibody (Center) - References**

- Friedrich, B., et al., Pflugers Arch. 445(6):693-696 (2003).  
Embark, H.M., et al., Pflugers Arch. 445(5):601-606 (2003).  
Brickley, D.R., et al., J. Biol. Chem. 277(45):43064-43070 (2002).  
Gamper, N., et al., Pflugers Arch. 445(1):60-66 (2002).  
Dai, F., et al., Biochem. Biophys. Res. Commun. 293(4):1191-1196 (2002).

brain and lower levels in lung, placenta and skeletal muscle. Expression is higher in ER-positive breast tumors than ER-negative breast tumors

### **SGK3 Antibody (Center) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **SGK3 Antibody (Center) - Citations**

- [IL-6 activates serum and glucocorticoid kinase via p38alpha mitogen-activated protein kinase pathway.](#)