

For Research Use Only

# SGK1 Polyclonal antibody

Catalog Number: 28454-1-AP

Featured Product

7 Publications



## Basic Information

### Catalog Number:

28454-1-AP

### Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG29420

### GenBank Accession Number:

BC001263

### GeneID (NCBI):

6446

### UNIPROT ID:

O00141

### Full Name:

serum/glucocorticoid regulated kinase 1

### Calculated MW:

431 aa, 49 kDa

### Observed MW:

42-50 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

IHC 1:50-1:500

IF/ICC 1:200-1:400

## Applications

### Tested Applications:

WB, IHC, IF/ICC, ELISA

### Cited Applications:

WB

### Species Specificity:

human, mouse

### Cited Species:

human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB : HeLa cells, HepG2 cells

IHC : mouse kidney tissue, human liver cancer tissue

IF/ICC : HepG2 cells, SH-SY5Y cells

## Background Information

Serum- and glucocorticoid-induced kinase 1 (SGK1), also named as SGK, is a S/T protein kinase that belongs to the AGC (cAMP-dependent, cGMP-dependent, and protein kinase C) kinase family. It is expressed in many cell types and participates in numerous cellular processes and it is ubiquitinated and degraded at the ER membrane (PMID: 16847254). The N-terminal motif of SGK1 is critical for its ubiquitination and degradation (PMID: 16817852). SGK and Akt are likely to phosphorylate related substrates, as they share a similar consensus phosphorylation site (RXRXXS/T) (PMID: 11154281). It has 5 isoforms produced by alternative promoter usage and alternative splicing.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xiao Han	35588785	J Biol Chem	WB
Qiongfeng Chen	35955931	Int J Mol Sci	WB
Wei Ye	39674392	Cell Signal	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

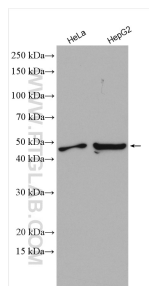
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

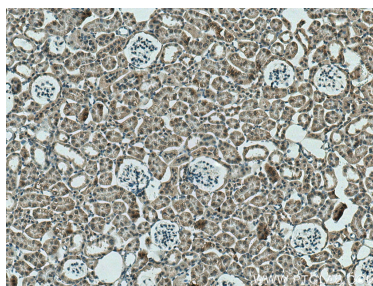
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

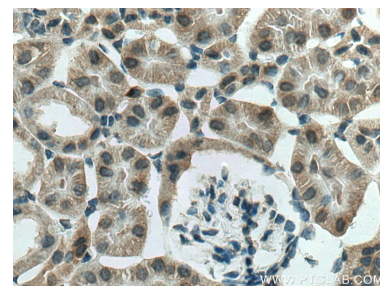
## Selected Validation Data



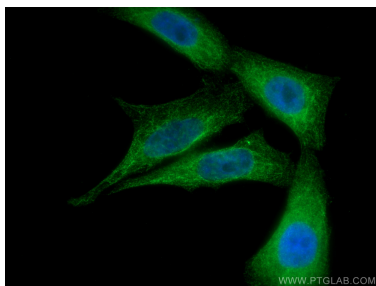
Various lysates were subjected to SDS PAGE followed by western blot with 28454-1-AP (SGK1 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



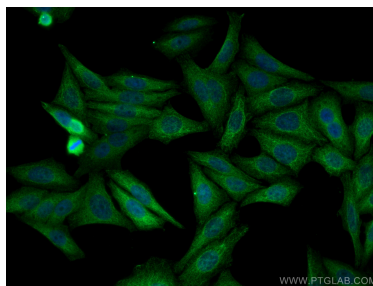
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 28454-1-AP (SGK1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



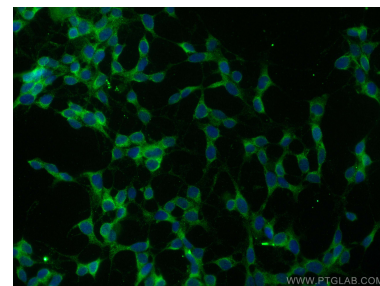
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 28454-1-AP (SGK1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using SGK1 antibody (28454-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using SGK1 antibody (28454-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed SH-SY5Y cells using SGK1 antibody (28454-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).