

For Research Use Only

# SGK1 Polyclonal antibody

Catalog Number: 28454-1-AP

Featured Product

2 Publications



## Basic Information

<b>Catalog Number:</b> 28454-1-AP	<b>GenBank Accession Number:</b> BC001263	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 900 µg/ml by Nanodrop and 450 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 6446	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:50-1:500 IF 1:200-1:800
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O00141	
<b>Isotype:</b> IgG	<b>Full Name:</b> serum/glucocorticoid regulated kinase 1	
<b>Immunogen Catalog Number:</b> AG29420	<b>Calculated MW:</b> 431 aa, 49 kDa	
	<b>Observed MW:</b> 42-50 kDa	

## Applications

<b>Tested Applications:</b> WB, IF, IHC, ELISA	<b>Positive Controls:</b> WB : HeLa cells, HepG2 cells
<b>Cited Applications:</b> WB	<b>IHC :</b> mouse kidney tissue, human liver cancer tissue
<b>Species Specificity:</b> Human, Mouse	<b>IF :</b> HepG2 cells,
<b>Cited Species:</b> 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**

## 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

## Storage

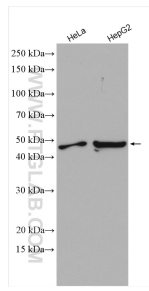
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

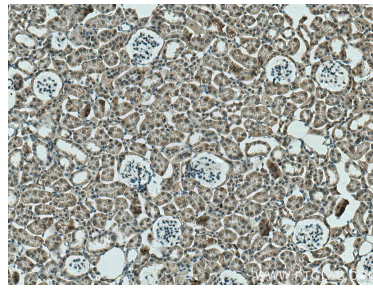
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

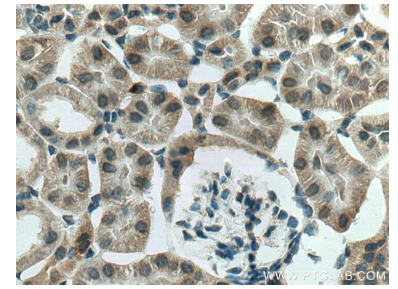
## Selected Validation Data



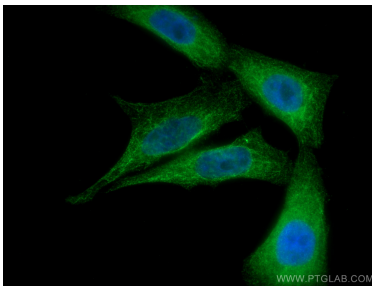
Various lysates were subjected to SDS PAGE followed by western blot with 28454-1-AP (SGK1 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



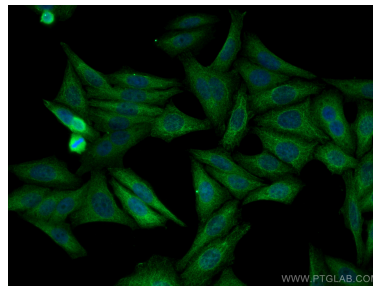
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 28454-1-AP (SGK1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 CoralLite@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 CoralLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).