For Research Use Only

# SGK1 Polyclonal antibody

Catalog Number:28454-1-AP Featured Product 25 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

## 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, IHC, IF, CoIP

Species Specificity:
human, mouse

Cited Species:
human, mouse, rat, bovine

***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). SGK1 promotes cell survival and proliferation in many cancer cell types, including breast, lung, parathyroid, and colon cancers (PMID: 38092114).

## Notable Publications

| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| Xiao Han | 35588785 | J Biol Chem | WB |
| Qiongfeng Chen | 35955931 | Int J Mol Sci | WB |
| Aida Contreras-Pérez | 42748911 | Mol Cell | WB,IF |

## Storage

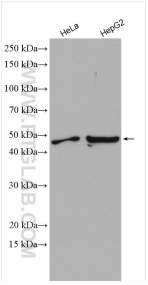
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

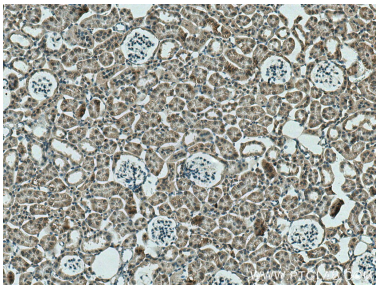
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

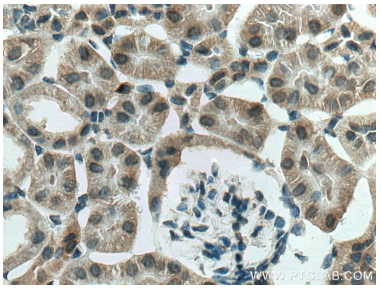
## Selected Validation Data



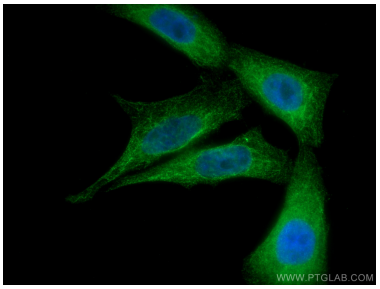

Various lysates were subjected to SDS PAGE followed by western blot with 28454-1-AP (SGK1 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



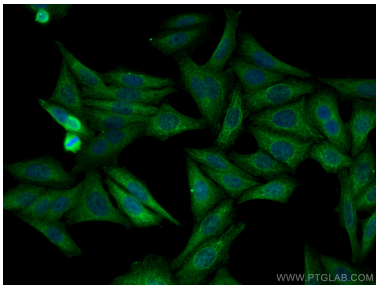
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 28454-1-AP (SGK1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



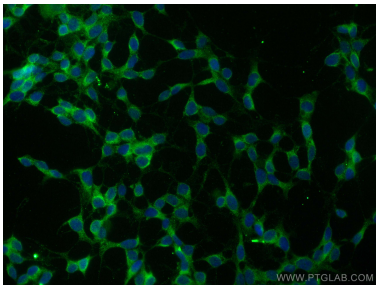

Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 28454-1-AP (SGK1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).




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).