

Datasheet for ABIN129525
anti-SKG1 antibody (AA 419-431)[Go to Product page](#)

1 Image

Overview

Quantity:	500 µg
Target:	SKG1
Binding Specificity:	AA 419-431
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SKG1 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), ELISA, Western Blotting (WB)

Product Details

Immunogen:	SKG-1 Antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids 419-431 of human SGK -1.
Isotype:	IgG
Cross-Reactivity:	Mouse (Murine), Rat (Rattus)
Characteristics:	Concentration Definition: by UV absorbance at 280 nm

Target Details

Target:	SKG1
Alternative Name:	SKG-1 (SKG1 Products)
Background:	SGK-1 (also called Serine/threonine-protein kinase Sgk1 and Serum/glucocorticoid-regulated

Target Details

kinase 1) is a protein kinase that plays an important role in cellular stress response. SGK1 activates certain potassium, sodium, and chloride channels, suggesting an involvement in the regulation of processes such as cell survival, neuronal excitability, and renal sodium excretion. Sustained high levels and activity may contribute to conditions such as hypertension and diabetic nephropathy. This kinase mediates cell survival signals, phosphorylates and negatively regulates pro-apoptotic FOXO3A and phosphorylates NEDD4L, which leads to its inactivation and to the subsequent activation of various channels and transporters such as ENaC, Kv1.3, or EAAT1. SGK1 is localized to the cytoplasm and upon phosphorylation is translocated to the nucleus. The kinase is expressed in most tissues with highest levels in the pancreas, followed by placenta, kidney and lung. Induction occurs upon exposure to glucocorticoids and by excessive extracellular glucose or TGF-beta, in cultured cells. SGK-1 is regulated by phosphorylation. Phosphoinositide 3-kinase (PI3-kinase) pathway promotes phosphorylation at Ser-422 which in turn increases the phosphorylation of Thr-256 by PDPK1. The kinase is ubiquitinated by NEDD4L; which promotes proteasomal degradation.

Synonyms: Serum/glucocorticoid-regulated kinase 1, SGK1 antibody, Cellular stress response antibodies, Serine/threonine-protein kinase Sgk1

Gene ID: 6446

UniProt: [O00141](#)

Application Details

Application Notes: SKG-1 Antibody antibody has been tested for use in ELISA, immunohistochemistry and western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band at ~49 kDa in size corresponding to SGK-1 by western blotting in the appropriate cell lysate or extract.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 5.0 mg/mL

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Preservative: Sodium azide

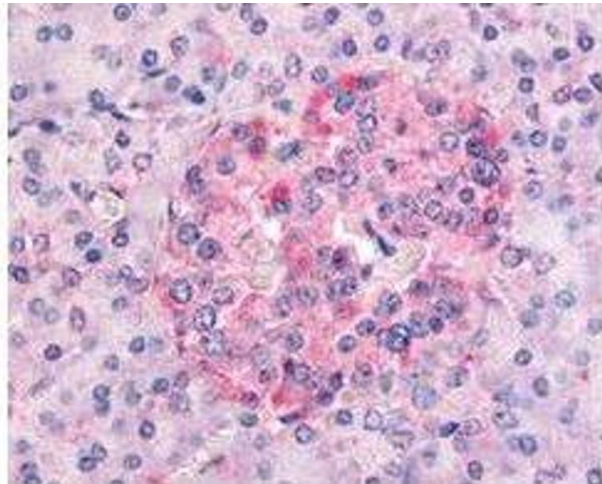
Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

should be handled by trained staff only.

Storage: -20 °C

Images



Immunohistochemistry

Image 1. Affinity Purified anti-SGK-1 antibody was used at a 15 µg/ml to detect nuclear and cytoplasmic signal in a variety of tissues including adrenal, heart, liver, ovary, pancreas, placenta, skin, spleen, testes, thyroid and uterus. Low to moderate levels of background staining were noted. This image shows SGK-1 staining of human pancreas. Tissue was formalin-fixed and paraffin embedded.