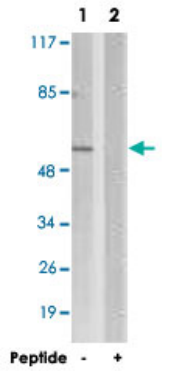
SGK1 polyclonal antibody

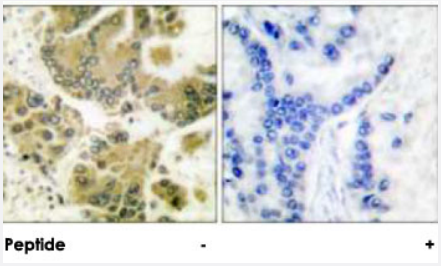
Catalog # PAB18136 Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot analysis of extracts from Jurkat cells, using SGK1 polyclonal antibody (Cat # PAB18136).
Peptide "+" means "peptide blocking".



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue using SGK1 polyclonal antibody (Cat # PAB18136).
Peptide "+" means "peptide blocking".

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of SGK1.
Immunogen	A synthetic peptide corresponding to human SGK1.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	This antibody is specific to SGK1.
Form	Liquid

Purification	Affinity purification
Concentration	1 mg/mL
Recommend Usage	Western Blot (1:500-1:1000) Immunohistochemistry (1:50-1:100) ELISA (1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

  Western blot analysis of extracts from Jurkat cells, using SGK1 polyclonal antibody (Cat # PAB18136).
  Peptide "+" means "peptide blocking".

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue using SGK1 polyclonal antibody (Cat # PAB18136).
  Peptide "+" means "peptide blocking".

- Enzyme-linked Immunoabsorbent Assay

Gene Info — SGK1

Entrez GeneID	6446
Protein Accession#	O00141
Gene Name	SGK1
Gene Alias	SGK
Gene Description	serum/glucocorticoid regulated kinase 1
Omim ID	602958
Gene Ontology	Hyperlink

Gene Summary	This gene encodes a serine/threonine protein kinase that plays an important role in cellular stress response. This kinase activates certain potassium, sodium, and chloride channels, suggesting an involvement in the regulation of processes such as cell survival, neuronal excitability, and renal so dium excretion. High levels of expression of this gene may contribute to conditions such as hypert ension and diabetic nephropathy. Several alternatively spliced transcript variants encoding differe nt isoforms have been noted for this gene. [provided by RefSeq
Other Designations	OTTHUMP00000017247|serine/threonine protein kinase SGK

Publication Reference

- SGK protein kinase facilitates the expression of long-term potentiation in hippocampal neurons.

  Ma YL, Tsai MC, Hsu WL, Lee EH.

  Learning & Memory (Cold Spring Harbor, N.Y.) 2006 Mar; 13(2):114.

  Application: WB-Tr, Rat, Rat hippocampal neurons

- Hypotonic activation of volume-sensitive outwardly rectifying chloride channels in cultured PASMCs is modulated by SGK.

  Wang GX, McCrudden C, Dai YP, Horowitz B, Hume JR, Yamboliev IA.

  American Journal of Physiology. Heart and Circulatory Physiology 2004 Aug; 287(2):H533.

  Application: WB, Dog, Dog pulmonary artery smooth muscle cells

- Activation of serum- and glucocorticoid-induced protein kinase (Sgk) by cyclic AMP and insulin.

  Perrotti N, He RA, Phillips SA, Haft CR, Taylor SI.

  Journal of Biological Chemistry 2001 Mar; 276(12):9406.

Disease

- Cardiovascular Diseases
- Diabetes Mellitus
- Disease Progression
- Edema
- Genetic Predisposition to Disease
- Hyperinsulinism
- Hypertension

- Kidney Failure