

Product datasheet for **TA319367**

SGK1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	ELISA: 1:4,000 - 1:16,000, WB: 1:500 - 1:3,000, IHC: 10 ug/ml to 20 ug/ml
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
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.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	serum/glucocorticoid regulated kinase 1
Database Link:	NP_001137148 Entrez Gene 20393 Mouse Entrez Gene 29517 Rat Entrez Gene 6446 Human O00141
Synonyms:	SGK

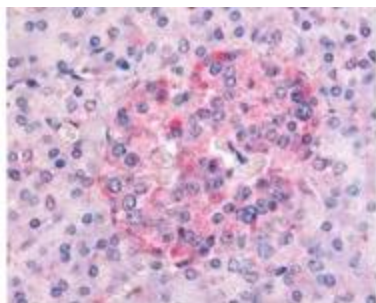


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Note: SGK-1 (also called Serine/threonine-protein kinase Sgk1 and Serum/glucocorticoid-regulated kinase 1) is a protein kinase that plays an important role in cellular stress response. SGK1 activates certain potassium, sodium, and chloride channels, 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 PDK1. The kinase is ubiquitinated by NEDD4L; which promotes proteasomal degradation.

Protein Families: Druggable Genome, Protein Kinase

Product images:



Affinity Purified anti-SGK-1 antibody was used at a 15 ug/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. Personal Communication, Tina Roush, LifeSpanBiosciences, Seattle, WA.