



Anti-SGK1 (aa 300-400) polyclonal antibody (DPABH-15964)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	Protein kinase that plays an important role in cellular stress response. 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. Mediates cell survival signals, phosphorylates and negatively regulates pro-apoptotic FOXO3A. Phosphorylates NEDD4L, which leads to its inactivation and to the subsequent activation of various channels and transporters such as ENaC, KCNA3/Kv1.3 or EAAT1. Isoform 2 exhibited a greater effect on cell plasma membrane expression of ENaC and Na(+) transport than isoform 1.
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Immunogen	Synthetic peptide conjugated to KLH derived from within residues 300 - 400 of Human SGK1.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Mouse, Human
Purification	Immunogen affinity purified
Conjugate	Unconjugated
Applications	WB, ICC/IF, IHC-P
Format	Liquid
Size	100 µg
Buffer	Constituents: 1% BSA, PBS, pH 7.4
Preservative	0.02% Sodium Azide

Storage	Store at 4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
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GENE INFORMATION

Gene Name	SGK1 serum/glucocorticoid regulated kinase 1 [Homo sapiens]
Official Symbol	SGK1
Synonyms	SGK1; serum/glucocorticoid regulated kinase 1; serum/glucocorticoid regulated kinase; SGK; serine/threonine-protein kinase Sgk1; serine/threonine protein kinase SGK; serum/glucocorticoid-regulated kinase 1; SGK;
Entrez Gene ID	6446
Protein Refseq	NP_001137148
UniProt ID	O00141
Chromosome Location	6q23
Pathway	Aldosterone-regulated sodium reabsorption; Class I PI3K signaling events; FoxO family signaling; Glucocorticoid receptor regulatory network; IL-6 Signaling Pathway; Insulin Pathway;
Function	ATP binding; calcium channel regulator activity; chloride channel regulator activity; nucleotide binding; potassium channel regulator activity; protein serine/threonine kinase activity; sodium channel regulator activity