



# SGK1 (phospho Ser78) rabbit pAb

Cat No.:ES7180

For research use only

## Overview

<b>Product Name</b>	SGK1 (phospho Ser78) rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;ELISA;IHC
<b>Species Cross-Reactivity</b>	Human;Mouse;Rat
<b>Recommended dilutions</b>	WB 1:500-2000;IHC-p 1:50-300; ELISA 2000-20000
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human SGK around the phosphorylation site of Ser78. AA range:41-90
<b>Specificity</b>	Phospho-SGK1 (S78) Polyclonal Antibody detects endogenous levels of SGK1 protein only when phosphorylated at S78.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	Serine/threonine-protein kinase Sgk1
<b>Gene Name</b>	SGK1
<b>Cellular localization</b>	Cytoplasm. Nucleus. Endoplasmic reticulum membrane. Cell membrane. Mitochondrion. The subcellular localization is controlled by the cell cycle, as well as by exposure to specific hormones and environmental stress stimuli. In proliferating cells, it shuttles between the nucleus and cytoplasm in synchrony with the cell cycle, and in serum/growth factor-stimulated cells it resides in the nucleus. In contrast, after exposure to environmental stress or treatment with glucocorticoids, it is detected in the cytoplasm and with certain stress conditions is associated with the mitochondria. In osmoregulation through the epithelial sodium channel, it can be localized to the cytoplasmic surface of the cell membrane. Nuclear, upon phosphorylation.; [Isoform 2]: Cell membrane.
<b>Purification</b>	The antibody was affinity-purified from rabbit





**Clonality**

**Concentration**

**Observed band**

**Human Gene ID**

**Human Swiss-Prot Number**

**Alternative Names**

**Background**

antiserum by affinity-chromatography using epitope-specific immunogen.

Polyclonal

1 mg/ml

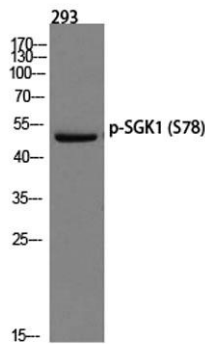
54kD

6446

O00141

SGK1; SGK; Serine/threonine-protein kinase Sgk1; Serum/glucocorticoid-regulated kinase 1

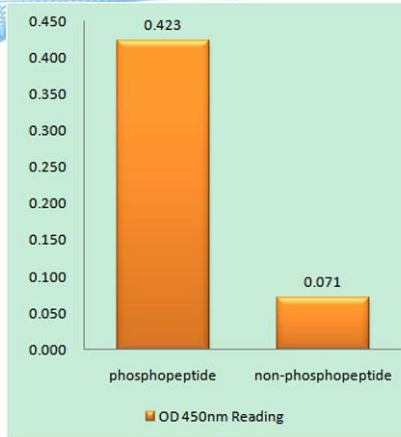
This gene encodes a serine/threonine protein kinase that plays an important role in cellular stress response. This kinase activates certain potassium, sodium, and chloride channels, suggesting an involvement in the regulation of processes such as cell survival, neuronal excitability, and renal sodium excretion. High levels of expression of this gene may contribute to conditions such as hypertension and diabetic nephropathy. Several alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Jan 2009],



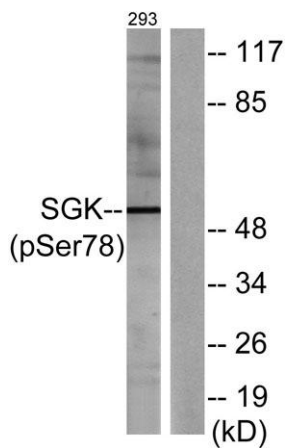
Western blot analysis of 293 using p-SGK1 (S78) antibody.

Antibody was diluted at 1:2000

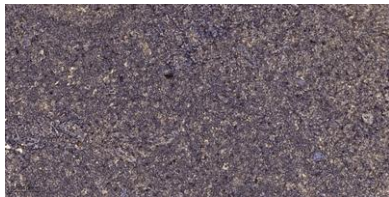




Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using SGK (Phospho-Ser78) Antibody



Western blot analysis of lysates from 293 cells treated with UV 15', using SGK (Phospho-Ser78) Antibody. The lane on the right is blocked with the phospho peptide.



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).

