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Product datasheet for AP06580PU-M

SGK1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	**Western blot:** 1/500-1/1000. **Immunohistochemistry on paraffin sections:** 1/50-1/200. **Immunofluorescence**: 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 51-100 of Human SGK1.
Specificity:	This antibody detects endogenous levels of SGKprotein. (region surrounding Pro73)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 54 kDa
Gene Name:	serum/glucocorticoid regulated kinase 1
Database Link:	Entrez Gene 20393 MouseEntrez Gene 29517 RatEntrez Gene 6446 Human O00141

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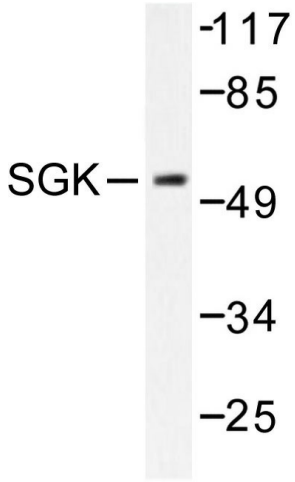
Background: Serum- and glucocorticoid-regulated kinase (SGK) is a serine/threonine protein kinase and a member of the "AGC" subfamily, which includes protein kinases A, G, and C. SGK plays an important role in activating certain potassium, sodium, and chloride channels, suggesting an involvement in the regulation of processes such as cell survival, neuronal excitability, and renal sodium excretion. SGK contains a catalytic domain, which is most similar to Akt1 (also known as protein kinase B or PKB). SGK is a downstream target of PI 3-kinase-stimulated growth factor signaling, with 3-phosphoinositidedependent protein kinase 1 (PDK1) capable of phosphorylating the activation- loop of SGK at Threonine-256. The adrenal corticosteroid hormone, Aldosterone, induces the transcription of SGK, which mediates Na + transport by stimulating epithelial sodium channel activity. The SGK promoter contains a glucocorticoid response element and an SP-1 regulatory element, and is a transcriptional target for p53. SGK is also a component of the p38 MAPK-mediated response to hyperosmotic stress. The human SGK gene maps to chromosome 6q23 and encodes the 431-amino acid, 49 kDa SGK protein.

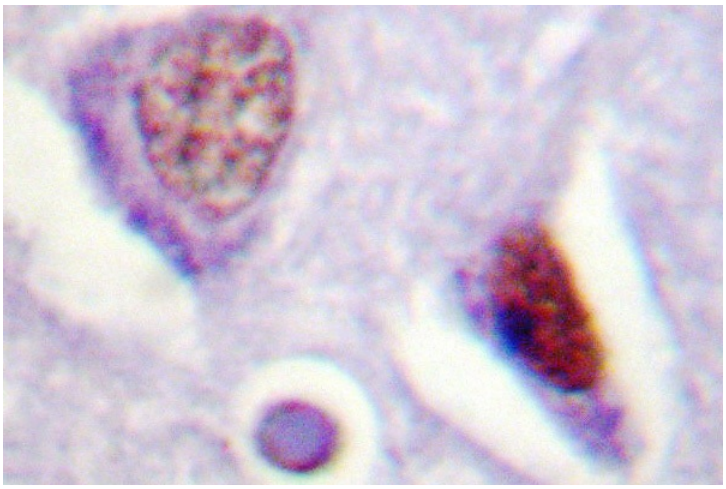
Synonyms: Serine/threonine-protein kinase Sgk1

Protein Families: Druggable Genome, Protein Kinase

Product images:



Western blot (WB) analysis of SGK antibody in extracts from 293 cells treated with heat shock.



Immunohistochemistry (IHC) analyzes of SGK antibody in paraffin-embedded human brain tissue.