

SGK1 Rabbit mAb

Catalog No: #48930



Package Size: #48930-1 50ul #48930-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

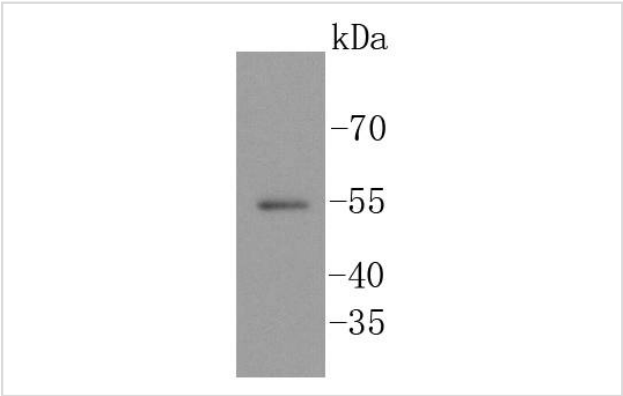
Description

Product Name	SGK1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SC05-71
Purification	ProA affinity purified
Applications	WB, IHC, IP, FC, IF
Species Reactivity	Human;Mouse;Rat
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	OTTHUMP00000017247 antibody Serine/threonine protein kinase SGK antibody Serine/threonine protein kinase Sgk1 antibody Serine/threonine-protein kinase Sgk1 antibody Serum and glucocorticoid regulated kinase antibody Serum/glucocorticoid regulated kinase 1 antibody Serum/glucocorticoid regulated kinase antibody Serum/glucocorticoid-regulated kinase 1 antibody SGK 1 antibody SGK antibody SGK1 antibody Sgk1 variant i3 antibody SGK1_HUMAN antibody
Accession No.	Swiss-Prot#:O00141
Calculated MW	55 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

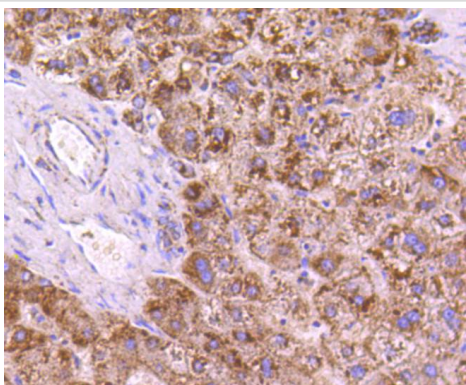
Application Details

WB: 1:1,000IHC:1:50-1:200 IF: 1:200FC: 1:50-1:100

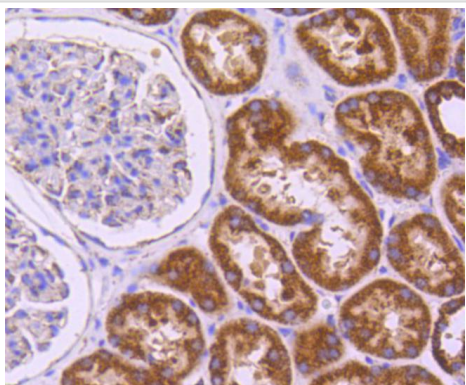
Images



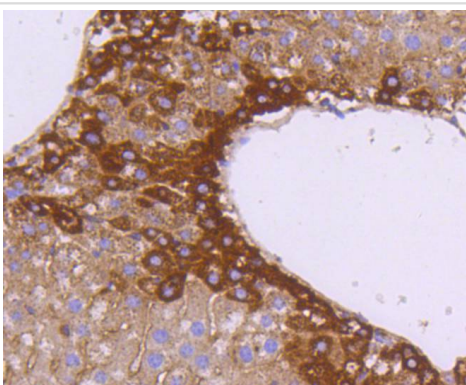
Western blot analysis of SGK1 on human kidney lysates using anti-SGK1 antibody at 1/1,000 dilution.



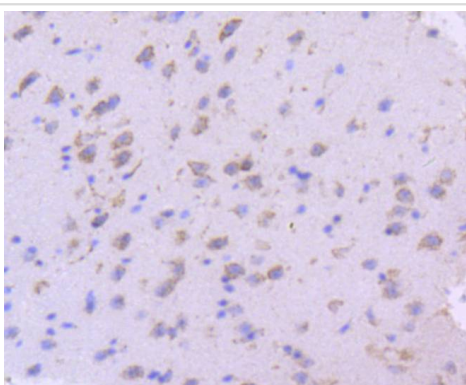
Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-SGK1 antibody. Counter stained with hematoxylin.



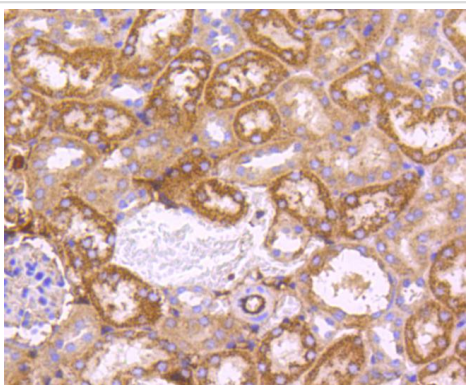
Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-SGK1 antibody. Counter stained with hematoxylin.



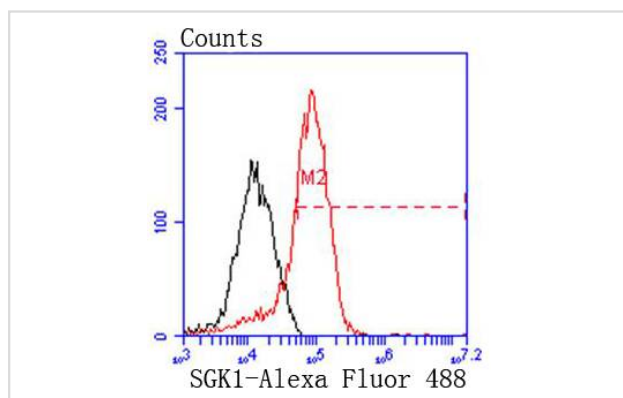
Immunohistochemical analysis of paraffin-embedded mouse liver tissue using anti-SGK1 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-SGK1 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-SGK1 antibody. Counter stained with hematoxylin.



Flow cytometric analysis of 293 cells with SGK1 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

Background

Serum- and glucocorticoid-regulated kinase (SGK), also known as SGK1, 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-phosphoinositide-dependent 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 SGK protein.

References

1. Anacker C et al. Role for the kinase SGK1 in stress, depression, and glucocorticoid effects on hippocampal neurogenesis. *Proc Natl Acad Sci U S A* 110:8708-13 (2013).
2. Costin BN et al. Ethanol regulation of serum glucocorticoid kinase 1 expression in DBA2/J mouse prefrontal cortex. *PLoS One* 8:e72979 (2013).

Published Papers

el at., Ligustrazine suppresses platelet aggregation through inhibiting the activities of calcium sensors., , (2022)

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.