

产品名称: SGK1(4D12)Mouse Monoclonal Antibody
产品货号: AMM17819



产品概述 (Summary)

产品名称 (Production Name)	SGK1(4D12)Mouse Monoclonal Antibody
描述 (Description)	Mouse monoclonal Antibody
宿主 (Host)	Mouse
应用 (Application)	IHC, ICC/IF
种属反应性 (Reactivity)	Human, Rat, Mouse

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Monoclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	SGK1
别名 (Alternative Names)	SGK1
基因 ID (Gene ID)	6446.0
蛋白 ID (SwissProt ID)	O00141.Synthetic Peptide of SGK1 at AA range of 350-430

产品应用 (Application)

稀释比 (Dilution Ratio)	IHC 1:100-1:200, ICC/IF 1:50-1:200
蛋白分子量 (Molecular Weight)	45-60kDa

研究背景 (Background)

This gene encodes a serine/threonine protein kinase that plays an important role in cellular stress response. This kinase

产品名称: SGK1(4D12)Mouse Monoclonal Antibody
产品货号: AMM17819

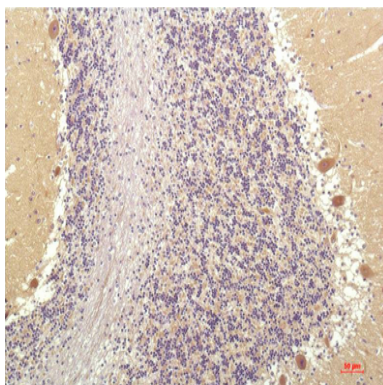


activates certain potassium, sodium, and chloride channels, suggesting an involvement in the regulation of processes such as cell survival, neuronal excitability, and renal sodium excretion. High levels of expression of this gene may contribute to conditions such as hypertension and diabetic nephropathy. Several alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Jan 2009],catalytic activity:ATP + a protein = ADP + a phosphoprotein.,enzyme regulation:Two specific sites, one in the kinase domain (Thr-256) and the other in the C-terminal regulatory region (Ser-422), need to be phosphorylated for its full activation.,function: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, Kv1.3, or EAAT1.,induction:By serum and/or glucocorticoids. By excessive extracellular glucose and by TGF-beta, in cultured cells.,PTM:Regulated by phosphorylation. Phosphoinositide 3-kinase (PI3-kinase) pathway promotes phosphorylation at Ser-422 which in turn increases the phosphorylation of Thr-256 by PDPK1.,PTM:Ubiquitinated by NEDD4L; which promotes proteasomal degradation. Ubiquitinated by SYVN1 at the endoplasmic reticulum; which promotes rapid proteasomal degradation and maintains a high turnover rate in resting cells.,similarity:Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family.,similarity:Contains 1 AGC-kinase C-terminal domain.,similarity:Contains 1 protein kinase domain.,subcellular location:Nuclear, upon phosphorylation.,subunit:Interacts with NEDD4 and NEDD4L.,tissue specificity:Expressed in most tissues with highest levels in the pancreas, followed by placenta, kidney and lung.,

研究领域 (Research Area)

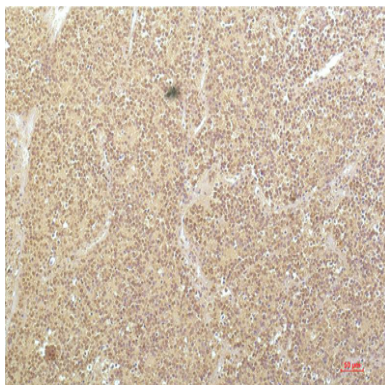
Aldosterone-regulated sodium reabsorption;

图片 (Image Data)



Immunohistochemical analysis of paraffin-embedded Human Brain Tissue using SGK1 Mouse mAb diluted at 1:200.

产品名称: SGK1(4D12)Mouse Monoclonal Antibody
产品货号: AMM17819



Immunohistochemical analysis of paraffin-embedded Human Kidney Carcinoma Tissue using SGK1 Mouse mAb diluted at 1:200.

注意事项 (Note)

For research use only .