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SGK3 Antibody (C-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS10898

Specification

SGK3 Antibody (C-Terminus) - Product Information

Application	**IHC-P**
Primary Accession	Q96BR1
Reactivity	**Human, Rabbit, Monkey**
Host	**Rabbit**
Clonality	**Polyclonal**
Dilution	**IHC-P~~N/A**

SGK3 Antibody (C-Terminus) - Additional Information

Gene ID 23678

Other Names
Serine/threonine-protein kinase Sgk3, 2.7.11.1, Cytokine-independent survival kinase, Serum/glucocorticoid-regulated kinase 3, Serum/glucocorticoid-regulated kinase-like, SGK3, CISK, SGKL

Target/Specificity
Human SGK3. BLAST analysis of the peptide immunogen showed no homology with other human proteins, except SGK1 (59%).

Reconstitution & Storage
Long term: -70°C; Short term: +4°C

Precautions
SGK3 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

SGK3 Antibody (C-Terminus) - Protein Information

Name SGK3

Synonyms CISK, SGKL

Function
Serine/threonine-protein kinase which is involved in the regulation of a wide variety of ion channels, membrane transporters, cell growth, proliferation, survival and migration. Up-regulates Na(+) channels: SCNN1A/ENAC and SCN5A, K(+) channels: KCNA3/KV1.3, KCNE1, KCNQ1 and KCNH2/HERG, epithelial Ca(2+) channels: TRPV5 and TRPV6, chloride channel: BSND, creatine transporter: SLC6A8, Na(+)/dicarboxylate cotransporter: SLC13A2/NADC1, Na(+)-dependent phosphate cotransporter: SLC34A2/NAPI-2B, amino acid transporters: SLC1A5/ASCT2 and SLC6A19, glutamate transporters: SLC1A3/EAAT1, SLC1A6/EAAT4 and SLC1A7/EAAT5, glutamate receptors: GRIA1/GLUR1 and GRIK2/GLUR6, Na(+)/H(+) exchanger: SLC9A3/NHE3, and the

Na(+)/K(+) ATPase. Plays a role in the regulation of renal tubular phosphate transport and bone density. Phosphorylates NEDD4L and GSK3B. Positively regulates ER transcription activity through phosphorylation of FLII. Negatively regulates the function of ITCH/AIP4 via its phosphorylation and thereby prevents CXCR4 from being efficiently sorted to lysosomes.

Cellular Location
Cytoplasmic vesicle. Early endosome. Recycling endosome. Note=Endosomal localization is a prerequisite for complete kinase activity. It is essential for its colocalization with the kinase responsible for phosphorylating Ser-486 thus allowing PDPK1 phosphorylation of Thr-320 resulting in complete activation of SGK3. Localized in vesicle-like structures and in the early endosome. Colocalizes with SLC9A3/NHE3 in the recycling endosomes

Tissue Location
Expressed in most tissues with highest levels in pancreas, kidney liver, heart and brain and lower levels in lung, placenta and skeletal muscle. Expression is higher in ER-positive breast tumors than ER-negative breast tumors

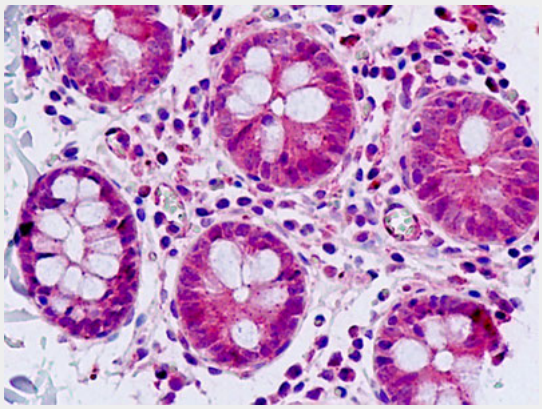
Volume
50 µl

SGK3 Antibody (C-Terminus) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SGK3 Antibody (C-Terminus) - Images



Human, Small Intestine: Formalin-Fixed Paraffin-Embedded (FFPE)

SGK3 Antibody (C-Terminus) - Background

#N/A

SGK3 Antibody (C-Terminus) - References

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#N/A