

Mouse Sgk3 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14298b**Specification**

Mouse Sgk3 Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	O9ERE3
Other Accession	O8R4V0 , NP_808215.2 , NP_573483.1
Reactivity	Human, Mouse
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	57145
Antigen Region	381-409

Mouse Sgk3 Antibody (C-term) - Additional Information**Gene ID** 170755**Other Names**

Serine/threonine-protein kinase Sgk3, Cytokine-independent survival kinase, Serum/glucocorticoid-regulated kinase 3, Serum/glucocorticoid-regulated kinase-like, Sgk3, Cisk, Sgkl

Target/Specificity

This Mouse Sgk3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 381-409 amino acids from the C-terminal region of mouse Sgk3.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Mouse Sgk3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Mouse Sgk3 Antibody (C-term) - 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 Colocalizes with SLC9A3/NHE3 in the recycling endosomes (By similarity). Localized in vesicle-like structures and in the early endosome.

Tissue Location

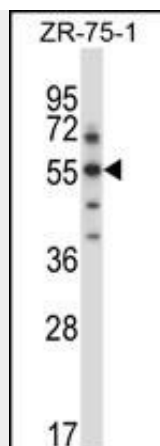
Widely expressed, predominantly in the heart, spleen and 7-day embryo

Mouse Sgk3 Antibody (C-term) - Protocols

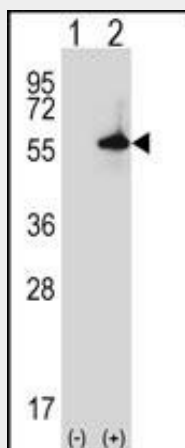
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

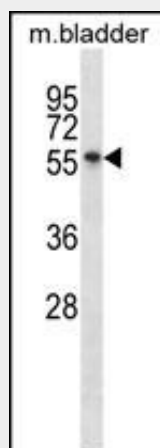
Mouse Sgk3 Antibody (C-term) - Images



Mouse Sgk3 Antibody (C-term) (Cat. #AP14298b) western blot analysis in ZR-75-1 cell line lysates (35ug/lane). This demonstrates the Sgk3 antibody detected the Sgk3 protein (arrow).



Western blot analysis of Sgk3 (arrow) using rabbit polyclonal Mouse Sgk3 Antibody (C-term) (Cat. #AP14298b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the Sgk3 gene.



Mouse Sgk3 Antibody (C-term) (Cat. #AP14298b) western blot analysis in mouse bladder tissue lysates (35ug/lane). This demonstrates the Sgk3 antibody detected the Sgk3 protein (arrow).

Mouse Sgk3 Antibody (C-term) - Background

Sgk3 is involved in the activation of potassium channels (By similarity). Mediates cell IL-3-dependent survival signals. Can inhibit pro-apoptotic FOXO3A in vitro.

Mouse Sgk3 Antibody (C-term) - References

Zemtsova, I.M., et al. Am. J. Physiol., Cell Physiol. 299 (5), C1007-C1014 (2010) :
Mauro, T.M., et al. FASEB J. 23(9):3193-3202(2009)
Xu, J., et al. J. Biol. Chem. 284(21):14377-14385(2009)
Campagna, D.R., et al. J. Invest. Dermatol. 128(3):730-732(2008)
Okada, T., et al. Am. J. Pathol. 168(4):1119-1133(2006)