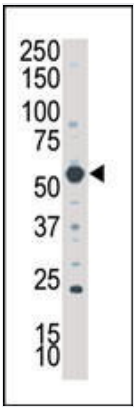
SGK3 Antibody – Rabbit Polyclonal

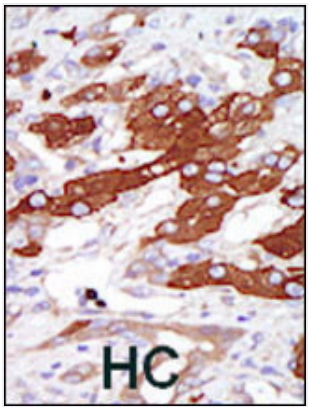
PRODUCT OVERVIEW

Product Name	SGK3, Polyclonal Antibody
Full Product Name	SGK3, NT (SGK3, CISK, SGKL, Serine/threonine-protein kinase Sgk3, Cytokine-independent survival kinase, Serum/glucocorticoid-regulated kinase 3, Serum/glucocorticoid-regulated kinase-like) (Biotin)
Product Gene Name	anti-SGK3 antibody
Product Synonym Names	SGK3; CISK; SGKL; Serine/threonine-protein kinase Sgk3; Cytokine-independent survival kinase; Serum/glucocorticoid-regulated kinase 3; Serum/glucocorticoid-regulated kinase-like
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein G Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	53,306 Da
OMIM	607591
3D Structure	ModBase 3D Structure for Q96BR1
Immunogen	SGK3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 7~36 amino acids from the N-terminal region of human SGK3.
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-SGK3 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-SGK3 antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-SGK3 antibody	IHC: 1:50-100 ELISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-SGK3 antibody	SGK3, a Ser/Thr protein kinase, is similar to serum-and glucocorticoid-induced protein kinase (SGK), but this gene product is not induced by serum or glucocorticoids. Expression is induced in response to signals that activate phosphatidylinositol 3-kinase, which is also true for SGK.
Product References and Citations for anti-SGK3 antibody	Friedrich, B., et al., Pflugers Arch. 445(6):693-696 (2003). Embark, H.M., et al., Pflugers Arch. 445(5):601-606 (2003). Brickley, D.R., et al., J. Biol. Chem. 277(45):43064-43070 (2002). Gamper, N., et al., Pflugers Arch. 445(1):60-66 (2002). Dai, F., et al., Biochem. Biophys. Res. Commun. 293(4):1191-1196 (2002).

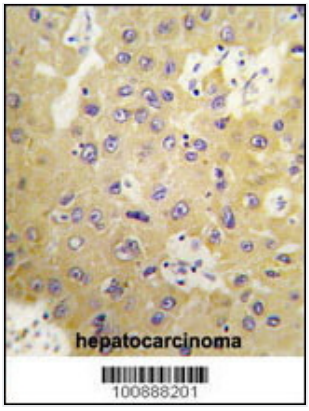
Other Notes	Small volumes of anti-SGK3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SGK3 purchase	MBS6346979 is an antibody targeting SGK3. Also known as SGK3, NT (SGK3, CISK, SGKL, Serine/threonine-protein kinase Sgk3, Cytokine-independent survival kinase, Serum/glucocorticoid-regulated kinase 3, Serum/glucocorticoid-regulated kinase-like) (Biotin). Reactive in Human. Host: Rabbit.



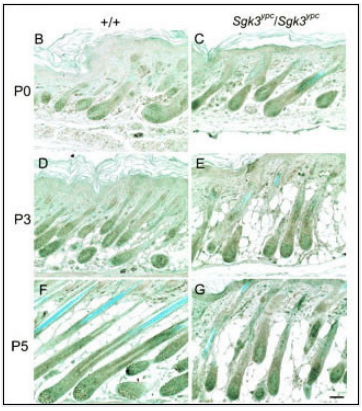
Western Blot (WB) of anti-SGK3 antibody
Western blot analysis of anti-SKG3 Pab in A375 cell lysate. SGK3 (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.



Immunohistochemistry (IHC) of anti-SGK3 antibody
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



Immunohistochemistry (IHC) of anti-SGK3 antibody
Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with SGK3 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Immunohistochemistry (IHC) of anti-SGK3 antibody
IHCdetection of SGK3 protein on the paraffin sections of the WT (left) and YPC (right) mice at P0 (B and C), P3 (D and E), and P5 (F and G) skin. Positive signals were observed in the cytoplasm of the hair follicle keratinocytes, especially in hair bulb, ORS, IRS, cuticle/cortex and bulge, or sebaceous glands. Some differences between the WT and YPC, for example, the expression in bulb keratinocytes were observed at P3 and P5. Scale bar, 50.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SGK3. It may not necessarily be applicable to this product.

NCBI GI #	75813626
NCBI GeneID	23678
NCBI Accession #	NP_001028750.1
UniProt Primary Accession #	Q96BR1
UniProt Secondary Accession #	Q9P1Q7; Q9UKG5; A8K5W3; B3KQC2
UniProt Related Accession #	Q96BR1
GenBank Nucleotide #	NM_001033578.2

NCBI Official Full Name	serine/threonine-protein kinase Sgk3 isoform 1
NCBI Official Synonym Full Names	serum/glucocorticoid regulated kinase family, member 3
NCBI Official Symbol	SGK3
NCBI Official Synonym Symbols	CISK; SGK2; SGKL
UniProt Protein Name	Serine/threonine-protein kinase Sgk3
UniProt Synonym Protein Names	Cytokine-independent survival kinase; Serum/glucocorticoid-regulated kinase 3; Serum/glucocorticoid-regulated kinase-like
Protein Family	Serine/threonine-protein kinase
UniProt Gene Name	SGK3
UniProt Synonym Gene Names	CISK; SGKL
UniProt Entry Name	SGK3_HUMAN
NCBI Protein Information	serine/threonine-protein kinase Sgk3; cytokine-independent survival kinase
NCBI Summary for SGK3	This gene is a member of the Ser/Thr protein kinase family and encodes a phosphoprotein with a PX (phox homology) domain. The protein phosphorylates several target proteins and has a role in neutral amino acid transport and activation of potassium and chloride channels. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]
UniProt Comments for SGK3	SGK3: 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. Interacts with GSK3B and FLII. Interacts with PDPK1 in a phosphorylation-dependent manner. Induced by estrogen/ER in breast cancer cells. 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. Two specific sites, one in the kinase domain (Thr-320) and the other in the C-terminal regulatory region (Ser- 486), need to be phosphorylated for its full activation. Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 2.7.11.1; Protein kinase, Ser/Thr (non-receptor); Protein kinase, AGC; Kinase, protein; AGC group; SGK family Chromosomal Location of Human Ortholog: 8q12 Cellular Component: recycling endosome; cytoplasmic membrane-bound vesicle; early endosome; cytosol Molecular Function: protein serine/threonine kinase activity; protein binding; potassium channel regulator activity; chloride channel regulator activity; sodium channel regulator activity; calcium channel regulator activity; ATP binding; phosphoinositide binding; protein kinase activity Biological Process: regulation of transcription factor activity; response to stress; regulation of cell growth; transmembrane transport; protein amino acid phosphorylation; regulation of cell migration; regulation of cell proliferation
Research Articles on SGK3	**1.** SGK3 is an androgen receptor (AR) target and induces cell proliferation through the AR-SGK3-p70S6K-cyclin D1 pathway in prostate cancer cells.

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