

Rabbit SGK3 Polyclonal Antibody | anti-SGK3 antibody

Phospho-SGK3 (Thr320) Antibody

CATALOG # AAA321386	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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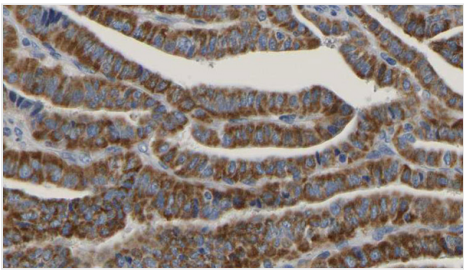
PRODUCT SYNONYMS

SGK3; Polyclonal Antibody; Phospho-SGK3 (Thr320) Antibody; CISK; Cytokine independent survival kinase; DKFZp781N0293; Serine/threonine protein kinase Sgk3; Serine/threonine-protein kinase Sgk3; Serum/glucocorticoid regulated kinase 3; Serum/glucocorticoid regulated kinase family member 3; Serum/glucocorticoid regulated kinase like; Serum/glucocorticoid-regulated kinase 3; Serum/glucocorticoid-regulated kinase-like; SGK 2; SGK 3; SGK2; Sgk3; SGK3_HUMAN; SGKL; anti-SGK3 antibody

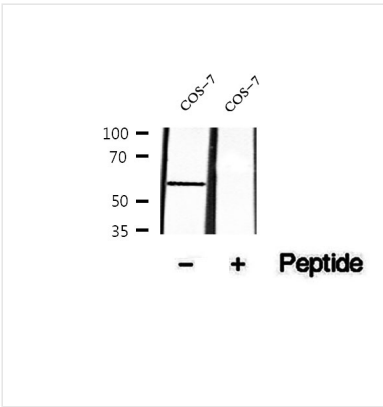
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-SGK3 (Thr320) antibody detects endogenous levels of SGK3.
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	496
Applicable Applications for anti-SGK3 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human SGK3 around the phosphorylation site of Thr320.
Subcellular Location	Cytoplasmic Vesicle. Early Endosome. Localized in vesicle-like structures and in the early endosome.
Tissue Specificity	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.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Zebrafish (91%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (91%), Xenopus (91%)
Conjugation	Unconjugated
Epitope	Phospho Thr320
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA321386 at 1/100 staining Human thyroid cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of extracts of COS-7 cells, using Phospho-SGK3 (Thr320) Antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-SGK3 antibody	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: SCN1A/ENAC and SCN5A, K⁺ channels: KCNA3/KV1.3, KCNE1, KCNQ1 and KCNH2/HERG, epithelial Ca²⁺ 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. Subunit Structure: Interacts with GSK3B and FLII. Interacts with PDPK1 in a phosphorylation-dependent manner. Post-translational Modifications: Activated by phosphorylation on Ser-486 by an unknown kinase (may be mTORC2 but not confirmed), transforming it into a substrate for PDPK1 which then phosphorylates it on Thr-320. Similarity: Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	75813626
NCBI GeneID	23678
NCBI Accession #	NP_001028750.1
NCBI GenBank Nucleotide #	NM_001033578.2
UniProt Accession #	Q96BR1; Q9P1Q7; Q9UKG5; A8K5W3; B3KQC2
Molecular Weight	Observed: 57 kDa Predicted: 58 kDa
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
NCBI Protein Information	serine/threonine-protein kinase Sgk3
UniProt Protein Name	Serine/threonine-protein kinase Sgk3
UniProt Gene Name	SGK3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/sgk3-antibody-immunohistochemistry-western-blot-elisa/321386>