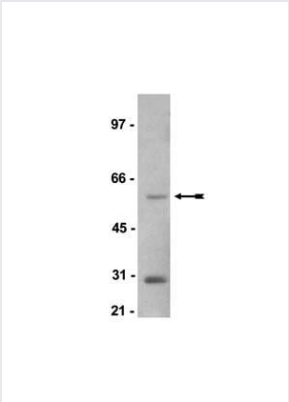
SGK Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SGK, Polyclonal Antibody
Full Product Name	SGK (SGK1, Serum and Glucocorticoid-regulated Protein Kinase) (AP)
Product Gene Name	anti-SGK antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Rat
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human SGK1, Mr ~50kD. A protein, competed by the peptide, was also detected in Rat 2 lysates, Mr ~31kD. Species Crossreactivity: rat. Species sequence homology: Rat and mouse 13/15aa identical
Preparation and Storage	May be stored at 4 degree C for short-term only. For long-term storage, aliquot and store at -20 degree C. Aliquots are stable for at least 12 months at -20 degree C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.
Molecular Weight	48,942 Da
Chromosome Location	Chromosome: 6; NC_000006.11 (134490384..134639196, complement). Location: 6q23
OMIM	602958
3D Structure	ModBase 3D Structure for O00141
Immunogen	Synthetic peptide corresponding to amino acids 399-412 (C-GKSPDSVLVTASVK) of human SGK1, KLH-conjugated. Species sequence homology: Rat and mouse 13/15aa identical
Conjugate	AP
Note	Preservative Free
Product Categories/Family for anti-SGK antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-SGK antibody	Immunoprecipitation (IP), Western Blot (WB)
Application Notes for anti-SGK antibody	IP: 4ug Immunoprecipitates SGK1 from 500ug of Rat 2 lysate. Applications are based on unconjugated antibody. WB: 0.5-2ug/ml detects SGK1 in RIPA lysates from A431 and Rat 2 cells. Rat 2 cell lysate was resolved by electrophoresis, transferred to nitrocellulose and probed with.5ug/ml). Proteins were visualized using a goat anti-rabbit secondary antibody conjugated to HRP and a chemiluminescence detection system.
Related Product Information for anti-SGK antibody	MBS6499121 is an antibody targeting SGK. Also known as SGK (SGK1, Serum and Glucocorticoid-regulated Protein Kinase) (AP). Reactive in Human, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-SGK 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.



Western Blot (WB) of anti-SGK antibody
WB: Rat 2 cell lysate was probed with (0.5ug/ml).

ADDITIONAL DETAILS

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

NCBI GI #	219521876
NCBI GeneID	6446
NCBI Accession #	NP_001137148.1
UniProt Primary Accession #	O00141
UniProt Secondary Accession #	Q5TCN2; Q5TCN3; Q5TCN4; Q5VY65; Q9UN56; B7UUP7; B7UUP8; B7UUP9; B7Z5B2; E1P583
UniProt Related Accession #	O00141
GenBank Nucleotide #	NM_005627
NCBI Official Full Name	serine/threonine-protein kinase Sgk1 isoform 2
NCBI Official Synonym Full Names	serum/glucocorticoid regulated kinase 1
NCBI Official Symbol	SGK1
NCBI Official Synonym Symbols	SGK
UniProt Protein Name	Serine/threonine-protein kinase Sgk1
UniProt Synonym Protein Names	Serum/glucocorticoid-regulated kinase 1
Protein Family	Serine/threonine-protein kinase
UniProt Gene Name	SGK1
UniProt Synonym Gene Names	SGK
UniProt Entry Name	SGK1_HUMAN
NCBI Protein Information	serine/threonine-protein kinase Sgk1; Sgk1 variant i3; serine/threonine protein kinase SGK; serum/glucocorticoid-regulated kinase 1
NCBI Summary for SGK	This gene encodes a serine/threonine protein kinase that plays an important role in cellular stress response. This kinase 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]

UniProt Comments for SGK	SGK1: serum and glucocorticoid-inducible kinase is an AGC protein kinase of the SGK family. Rapidly induced in response to a variety of stimuli including serum, glucocorticoids, follicle stimulating hormone, osmotic shock and mineralocorticoids. Can be activated via PI3K-dependent and -independent pathways. Plays a role in activating certain potassium, sodium and chloride channels, suggesting an involvement in the regulation of processes such as cell survival, neuronal excitability and renal sodium excretion. SGK is negatively regulated by ubiquitin modification and proteasome degradation. Protein type: Kinase, protein; Protein kinase, Ser/Thr (non-receptor); Motility/polarity/chemotaxis; Protein kinase, AGC; EC 2.7.11.1; AGC group; SGK family Chromosomal Location of Human Ortholog: 6q23 Cellular Component: nucleoplasm; endoplasmic reticulum membrane; mitochondrion; cytoplasm; plasma membrane; 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; protein serine/threonine/tyrosine kinase activity; ATP binding Biological Process: apoptosis; sodium ion transport; positive regulation of transporter activity; protein amino acid phosphorylation; regulation of cell migration; regulation of cell proliferation; regulation of apoptosis; regulation of transcription factor activity; long-term memory; regulation of catalytic activity; regulation of blood pressure; response to stress; regulation of cell growth; transmembrane transport; response to DNA damage stimulus
Research Articles on SGK	**1.** Transgenic mice with increased SGK1.1 activity shows diminished sensitivity to induced seizures.
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