

Rabbit anti-Human SGK1/SGK Polyclonal Antibody | anti-SGK1 antibody

Anti-SGK1/SGK Antibody, Rabbit Polyclonal

CATALOG # AAA254375	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunoprecipitation, Western Blot
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PRODUCT SYNONYMS

SGK1/SGK; Polyclonal Antibody; Anti-SGK1/SGK Antibody; Rabbit Polyclonal; SGK1/SGK Antibody; Rabbit PAb; Antigen Affinity Purified; serum/glucocorticoid regulated kinase 1; Anti-SGK Antibody; anti-SGK1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human SGK1/SGK
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-SGK1 antibody	IP (Immunoprecipitation), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to the C-terminus of the Human SGK1/SGK
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the C-terminus of the Human SGK1/SGK, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IP (Immunoprecipitation)

SGK1 was immunoprecipitated using: Lane A: 0.5 mg HeLa Whole Cell Lysate 4 uL anti-SGK1 rabbit polyclonal antibody and 60 ug of Immunomagnetic beads Protein A/G. Primary antibody: Anti-SGK1 rabbit polyclonal antibody, at 1:100 dilution. Secondary antibody: Clean-Blot IP Detection Reagent (HRP) at 1:1000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 49 kDa. Observed band size: 49 kDa.



WB (Western Blot)

Anti-SGK1 rabbit polyclonal antibody at 1:500 dilution. Lane A: HeLa Whole Cell Lysate. Lane B: Jurkat Whole Cell Lysate. Lysates/proteins at 30 ug per lane. Secondary: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 49 kDa. Observed band size: 49 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-SGK1 antibody	Serum-and glucocorticoid-inducible kinase 1 (SGK1), a protein kinase, shares significant structural similarity with other members of the AGC protein kinase family. The inactive SGK1 structure lacks the alphaC helix and this unique feature makes it distinct from other protein kinases. SGK1 is ubiquitously expressed, which plays a pivotal role in the hormonal regulation of several ion channels, carriers, pumps, and transcription factors or regulators. SGK1 plays an important role in the absorption of Na+ and water through the Na+ channel in the apical membrane of tubular epithelial cells. SGK1 expression is modulated by cell stress and hormones, including gluco-and mineralocorticoids. Compelling evidence suggests that increased SGK1 expression or function is related to the pathogenic stress hypothesis of major depression.
References	Tang Z, et al. (2018) Serum and glucocorticoid-regulated kinase 1 (sgk1) is a predictor of poor prognosis in non-small cell lung cancer, and its dynamic pattern following treatment with sgk1 inhibitor and gamma-ray irradiation was elucidated. Oncol Rep 39 (3): 1505-1515.Martin-Fernandez B, et al. (2014) Relevance of sgk1 in structural, functional and molecular alterations produced by aldosterone in heart. Horm Mol Biol Clin Investig 18 (2): 53-61.Dattilo V, et al. (2020) The emerging role of sgk1 (serum-and glucocorticoid-regulated kinase 1) in major depressive disorder: Hypothesis and mechanisms. Front Genet 11 826.Akhoon BA, et al. (2019) Computational insights into the active structure of sgk1 and its implication for ligand design. Biochimie 165 57-66.

NCBI AND UNIPROT INFORMATION

NCBI GI #	219521876
NCBI GeneID	6446
NCBI Accession #	NP_001137148.1
NCBI GenBank Nucleotide #	NM_001143676.1
UniProt Accession #	O00141; Q5TCN2; Q5TCN3; Q5TCN4; Q5VY65; Q9UN56; B7UUP7; B7UUP8; B7UUP9; B7Z5B2; E1P583
Molecular Weight	48,942 Da
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
NCBI Protein Information	serine/threonine-protein kinase Sgk1; Sgk1 variant i3; serine/threonine protein kinase SGK; serum/glucocorticoid-regulated kinase 1
UniProt Protein Name	Serine/threonine-protein kinase Sgk1
UniProt Gene Name	SGK1
UniProt Synonym Gene Names	SGK
UniProt Entry Name	SGK1_HUMAN

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/sgk1-sgk-antibody-immunoprecipitation-western-blot-elisa/254375>