

SGK3 recombinant protein

SGK3, Active

CATALOG # AAA73126	HOST Sf9 insect cells using baculovirus	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

SGK3; Active; SGK3 recombinant protein

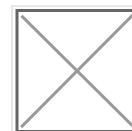
PRODUCT SPECIFICATIONS

Host	Sf9 insect cells using baculovirus
Form/Format	50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol.
Sequence Positions	Full Length
Sequence Length	4206
Applicable Applications for SGK3 recombinant protein	WB (Western Blot), Kinase Assay
Species	Human
Tag	GST tag
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for SGK3 recombinant protein	Description: Recombinant full-length human SGK3 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. Scientific Background: SGK3 is a member of the SGK family and encodes a phosphoprotein with a PX (phox homology) domain. PKD1 can phosphorylate and activate SGK3 in vitro (1). A 10-fold increase in PKD1 increases the phosphorylation status of SGK3. When expressed in human embryonic kidney cells, IGF1 and peroxide significantly activate SGK3, and the activation could be reduced by preincubation with inhibitors of PI3 kinase. A yeast 2-hybrid screen found direct interaction between human SGK3 and GSK3beta. SGK3 phosphorylates several target proteins and has a role in neutral amino acid transport and activation of potassium and chloride channels (2).
Product Categories/Family for SGK3 recombinant protein	Enzymes; Active Kinases

References	1. Kobayashi, T. et al: Characterization of the structure and regulation of two novel isoforms of serum- and glucocorticoid-induced protein kinase. Biochem. J. 344: 189-197, 1999. 2. Gamper, N. et al: K+ channel activation by all three isoforms of serum- and glucocorticoid-dependent protein kinase SGK. Europ. J. Physiol. 445: 60-66, 2002.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	323510625
NCBI GeneID	23678
NCBI Accession #	NM_013257.4
NCBI GenBank Nucleotide #	NM_013257
UniProt Accession #	Q96BR1; Q9P1Q7; Q9UKG5; A8K5W3; B3KQC2
Molecular Weight	~82 kDa
NCBI Official Full Name	Homo sapiens serum/glucocorticoid regulated kinase family member 3 (SGK3), transcript variant 1, mRNA
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
UniProt Synonym Gene Names	CISK; SGKL

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.