



Rabbit Anti-SIK3 antibody

SL17491R

Product Name:	SIK3
Chinese Name:	丝氨酸/苏氨酸蛋白激酶SIK3抗体
Alias:	FLJ12240; KIAA0999; L19; QSK; Salt inducible kinase 3; serine/threonine-protein kinase QSK; Serine/threonine-protein kinase SIK3; SIK 3; SIK family kinase 3; SIK3 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	140kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human SIK3:401-500/1263
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The phosphorylation and dephosphorylation of proteins on serine and threonine residues is an essential means of regulating a broad range of cellular functions in eukaryotes, including cell division, homeostasis and apoptosis. A group of proteins that are intimately involved in this process are the serine/threonine (Ser/Thr) protein kinases. The salt-inducible kinases (SIKs) are a family of related serine-threonine kinases and

are key enzymes that modulate important processes such as steroid hormone biosynthesis and insulin signaling in adipocytes. QSK, also known as L19 or SIK3 (salt-inducible kinase 3), is a 1,263 amino acid cytoplasmic protein belonging to the protein kinase superfamily, CAMK Ser/Thr protein kinase family and the AMPK subfamily. Ubiquitously expressed, QSK consists of one protein kinase domain and a UBA domain. QSK is activated by 14-3-3 Ω and utilizes magnesium as a cofactor. QSK exists as three alternatively spliced isoforms.

Function:

Activated by phosphorylation on Thr 163 by STK11 in complex with STE20 related adapter alpha (STRAD alpha) pseudo kinase and CAB39. Binds to and is activated by YWHAZ when phosphorylated on Thr 163.

Subcellular Location:

Cytoplasm

SWISS:

Q9Y2K2

Gene ID:

23387

Database links:

[Entrez Gene: 23387](#) Human

[Entrez Gene: 70661](#) Mouse

[Omim: 614776](#) Human

[SwissProt: Q9Y2K2](#) Human

[SwissProt: Q6P4S6](#) Mouse

[Unigene: 167451](#) Human

[Unigene: 219459](#) Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.