SunLong Biotech Co.,LTD
Tel: 0086-571- 56623320 Fax:0086-571- 56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

Rabbit Anti-PAPSS1 antibody

SL9029R

Product Name:	PAPSS1
Chinese Name:	腺苷酸硫酸激酶1抗体
Alias:	Adenylyl-sulfate kinase; Adenylylsulfate 3''-phosphotransferase; APS kinase; ATP-sulfurylase; ATPSK 1; ATPSK1; Bifunctional 3' phosphoadenosine 5' phosphosulfate synthetase 1; PAPS synthase 1; PAPS synthetase 1; PAPS1_HUMAN; PAPSS 1; PAPSS; PAPSS1; SAT; SK 1; SK1; Sulfate adenylate transferase; Sulfurylase kinase 1; 3 prime phosphoadenosine 5 prime phosphosulfate synthase 1; 3' phosphoadenosine 5' phosphosulfate synthase 1; 3''-phosphoadenosine-5''-phosphosulfate synthase; Adenosine-5''-phosphosulfate 3''-phosphotransferase.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Cow,Horse,Rabbit,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:50-200（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	69kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human PAPSS1:155-260/624
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:	Three-prime-phosphoadenosine 5-prime-phosphosulfate (PAPS) is the sulfate donor

cosubstrate for all sulfotransferase (SULT) enzymes (Xu et al., 2000 [PubMed 10679223]). SULTs catalyze the sulfate conjugation of many endogenous and exogenous compounds, including drugs and other xenobiotics. In humans, PAPS is synthesized from adenosine 5-prime triphosphate (ATP) and inorganic sulfate by 2 isoforms, PAPSS1 and PAPSS2 (MIM 603005).[supplied by OMIM, Mar 2008].

Function:
Bifunctional enzyme with both ATP sulfurylase and APS kinase activity, which mediates two steps in the sulfate activation pathway. The first step is the transfer of a sulfate group to ATP to yield adenosine 5'-phosphosulfate (APS), and the second step is the transfer of a phosphate group from ATP to APS yielding 3'-phosphoadenylylsulfate (PAPS: activated sulfate donor used by sulfotransferase). In mammals, PAPS is the sole source of sulfate; APS appears to be only an intermediate in the sulfate-activation pathway. Also involved in the biosynthesis of sulfated L-selectin ligands in endothelial cells.

Tissue Specificity:
Expressed in testis, pancreas, kidney, thymus, prostate, ovary, small intestine, colon, leukocytes and liver. Also expressed in high endothelial venules (HEV) cells and in cartilage.

Similarity:
In the N-terminal section; belongs to the APS kinase family.
In the C-terminal section; belongs to the sulfate adenylyltransferase family.

SWISS:
O43252

Gene ID:
9060

Database links:

Entrez Gene: 9060 Human

Entrez Gene: 9061 Human

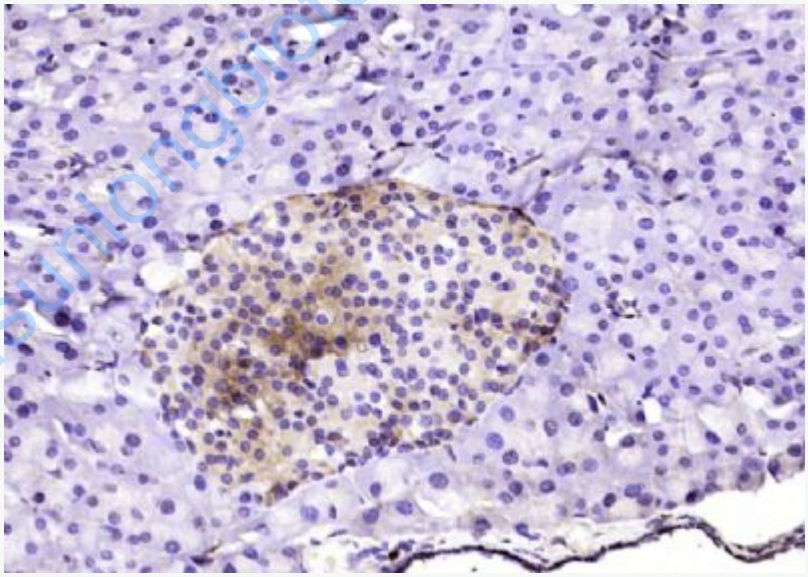
Entrez Gene: 23971 Mouse

Entrez Gene: 295443 Rat

Omim: 603262 Human

SwissProt: O43252 Human

SwissProt: O95340 Human

	SwissProt: O88428 Mouse SwissProt: Q60967 Mouse Unigene: 368610 Human Unigene: 524491 Human Unigene: 203916 Mouse Unigene: 244912 Mouse Unigene: 3507 Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Picture:	 Paraformaldehyde-fixed, paraffin embedded (mouse pancreas); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PAPSS1) Polyclonal Antibody, Unconjugated (SL9029R) at 1:200 overnight at 4°C, followed by operating according to SP

	Kit(Rabbit) (sp-0023) instructionsand DAB staining.