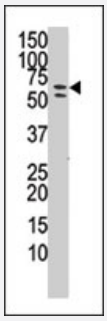
PAPSS1 polyclonal antibody

Catalog # PAB2534 Size 400 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of PAPSS1 polyclonal antibody (Cat # PAB2534) in HepG2 cell line lysate (35 ug/lane). PAPSS1 (arrow) was detected using the purified polyclonal antibody.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of PAPSS1.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to C-terminus of human PAPSS1.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification
Recommend Usage	Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

  Western blot analysis of PAPSS1 polyclonal antibody (Cat # PAB2534) in HepG2 cell line lysate (35 ug/lane). PAPSS1 (arrow) was detected using the purified polyclonal antibody.

Gene Info — PAPSS1

Entrez GeneID	9061
Protein Accession#	NP_005434
Gene Name	PAPSS1
Gene Alias	ATPSK1, PAPSS, SK1
Gene Description	3'-phosphoadenosine 5'-phosphosulfate synthase 1
Omim ID	603262
Gene Ontology	Hyperlink
Gene Summary	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 th e 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 ino rganic sulfate by 2 isoforms, PAPSS1 and PAPSS2 (MIM 603005).[supplied by OMIM
Other Designations	3-prime-phosphoadenosine 5-prime-phosphosulfate synthase 1

Publication Reference

- Human 3'-phosphoadenosine 5'-phosphosulfate synthetase (isoform 1, brain): kinetic properties of the adenosine triphosphate sulfurylase and adenosine 5'-phosphosulfate kinase domains.

  Lansdon EB, Fisher AJ, Segel IH.

  Biochemistry 2004 Apr; 43(14):4356.

- Human 3'-phosphoadenosine 5'-phosphosulfate (PAPS) synthase: biochemistry, molecular biology and genetic deficiency.

  Venkatachalam KV.

  IUBMB Life 2003 Jan; 55(1):1.

- Characterization and expression of human bifunctional 3'-phosphoadenosine 5'-phosphosulphate synthase isoforms.

  Fuda H, Shimizu C, Lee YC, Akita H, Strott CA.

  The Biochemical Journal 2002 Jul; 365(Pt 2):497.

Pathway

- Metabolic pathways
- Purine metabolism
- Selenoamino acid metabolism
- Sulfur metabolism

Disease

- Alcoholism
- Carcinoma
- Genetic Predisposition to Disease
- Hepatitis B
- Liver Neoplasms