Datasheet for ABIN389138

anti-PAPSS1 antibody (C-Term)

1 Image | 1 Publication

Go to Product page

Overview

Quantity:	400 µL
Target:	PAPSS1
Binding Specificity:	AA 592-624, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PAPSS1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This PAPSS1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 592-624 amino acids from the C-terminal region of human PAPSS1.
Clone:	RB5109
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	PAPSS1
Alternative Name:	PAPSS1 (PAPSS1 Products)

Target Details

Background:	Sulfotransferase (SULT) enzymes catalyze the sulfate conjugation of many drugs, xenobiotic compounds, hormones, and neurotransmitters. 3'-phosphoadenosine 5'-phosphosulfate (PAPS) synthase (PAPSS) catalyzes the biosynthesis of PAPS which serves as the universal sulfonate donor compound for all sulfotransferase reactions. In humans, PAPS is synthesized from adenosine 5-prime triphosphate (ATP) and inorganic sulfate by 2 isoforms, PAPSS1 and PAPSS2 (603005). Bifunctional PAPSS1 is comprised of an N-terminal APS kinase domain, and a C-terminal ATP sulfurylase domain. Full-length protein has significantly less APS kinase activity than the N-terminal fragment, suggesting that the C-terminal domain exerts a regulatory role on the N-terminal APS kinase activity. In humans there are two major isoforms: PAPSS1 and PAPSS2. In brain and skin PAPSS1 is the major isoform, whereas in liver, cartilage and adrenal glands PAPSS2 isoform expression dominates. The predicted 623-amino acid protein is 98 % identical to mouse PAPS synthase. The N-terminal 268-amino acid region of human PAPS synthase resembles APS kinases from other organisms and contains 3 conserved nucleotide-binding motifs.
Molecular Weight:	70833
Gene ID:	9061
NCBI Accession:	NP_005434
UniProt:	O43252
Pathways:	Glycosaminoglycan Metabolic Process, Ribonucleoside Biosynthetic Process

Application Details

Application Notes:	WB: 1:1000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C

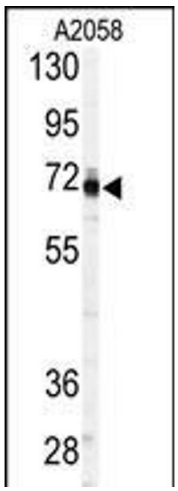
Handling

Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

Publications

Product cited in:	Bergelin, Blom, Heikkilä, Löf, Alam, Balthasar, Slotte, Hinkkanen, Törnquist: "Sphingosine kinase as an oncogene: autocrine sphingosine 1-phosphate modulates ML-1 thyroid carcinoma cell migration by a mechanism dependent on protein kinase C-alpha and ERK1/2." in: **Endocrinology**, Vol. 150, Issue 5, pp. 2055-63, (2009) (PubMed).

Images



Western Blotting

Image 1. Western blot analysis of anti-PSS1 Antibody (C-term) (ABIN389138 and ABIN2839314) in cell line lysates (35 µg/lane). PSS1(arrow) was detected using the purified b.