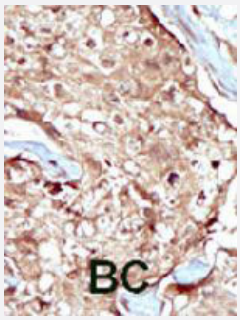
PAPSS2 polyclonal antibody

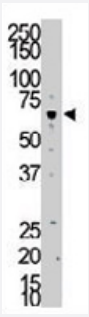
Catalog # PAB3306 Size 400 uL

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human cancer tissue reacted with PAPSS2 polyclonal antibody (Cat # PAB3306) , which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma.



Western Blot (Cell lysate)

The PAPSS2 polyclonal antibody (Cat # PAB3306) is used in Western blot to detect PAPSS2 in Jurkat cell lysate.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of PAPSS2.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to C-terminus of human PAPSS2.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification

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Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:50-100) 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

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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- Western Blot (Cell lysate)

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Gene Info — PAPSS2

Entrez GeneID	9060
Protein Accession#	NP_001015880
Gene Name	PAPSS2
Gene Alias	ATPSK2, SK2
Gene Description	3'-phosphoadenosine 5'-phosphosulfate synthase 2
Omim ID	603005
Gene Ontology	Hyperlink
Gene Summary	Sulfation is a common modification of endogenous (lipids, proteins, and carbohydrates) and exog enous (xenobiotics and drugs) compounds. In mammals, the sulfate source is 3'-phosphoadenosi ne 5'-phosphosulfate (PAPS), created from ATP and inorganic sulfate. Two different tissue isofor ms encoded by different genes synthesize PAPS. This gene encodes one of the two PAPS synth etases. Defects in this gene cause the Pakistani type of spondyloepimetaphyseal dysplasia. Two alternatively spliced transcript variants that encode different isoforms have been described for this gene. [provided by RefSeq

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Other Designations	3-prime-phosphoadenosine 5-prime-phosphosulfate synthase 2|ATP sulfurylase/APS kinase 2|ATP sulfurylase/adenosine 5'-phosphosulfate kinase|PAPS synthase 2|PAPS synthetase 2|bifunctional 3'-phosphoadenosine 5'-phosphosulfate synthethase 2|phosphoadenosine-

Publication Reference

- Human 3'-phosphoadenosine 5'-phosphosulfate synthetase 1 (PAPSS1) and PAPSS2: gene cloning, characterization and chromosomal localization.

  Xu ZH, Otterness DM, Freimuth RR, Carlini EJ, Wood TC, Mitchell S, Moon E, Kim UJ, Xu JP, Siciliano MJ, Weinshilboum RM.

  Biochemical and Biophysical Research Communications 2000 Feb; 268(2):437.

- Genomic organization of the mouse and human genes encoding the ATP sulfurylase/adenosine 5'-phosphosulfate kinase isoform SK2.

  Kurima K, Singh B, Schwartz NB.

  The Journal of Biological Chemistry 1999 Nov; 274(47):33306.

- Mutations in orthologous genes in human spondyloepimetaphyseal dysplasia and the brachymorphic mouse.

  Faiyaz ul Haque M, King LM, Krakow D, Cantor RM, Rusiniak ME, Swank RT, Superti-Furga A, Haque S, Abbas H, Ahmad W, Ahmad M, Cohn DH.

  Nature Genetics 1998 Oct; 20(2):157.

Pathway

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

Disease

- Alzheimer Disease
- Diastrophic dysplasia
- Genetic Predisposition to Disease

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- Osteoarthritis
- Tobacco Use Disorder

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