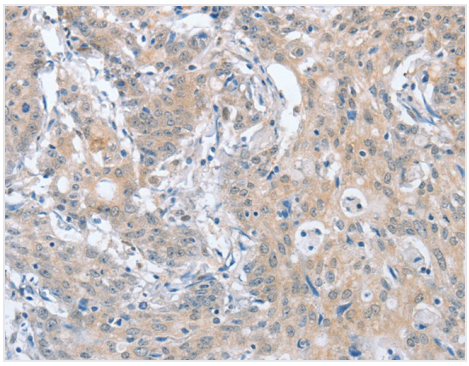
PAPSS1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PAPSS1, Polyclonal Antibody
Full Product Name	PAPSS1 Polyclonal Antibody
Product Gene Name	anti-PAPSS1 antibody
Product Synonym Names	SK1; PAPSS; ATPSK1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Antigen affinity purification
Concentration	1.7mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C (regular) and -80 degree C (long term). Avoid freeze / thaw cycles.
Molecular Weight	70,833 Da
3D Structure	ModBase 3D Structure for Q6IAX6
Immunogen	Recombinant protein of human PAPSS1
Buffer	PBS with 0.05% sodium azide, 50% glycerol, pH7.3
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PAPSS1 antibody	ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-PAPSS1 antibody	IHC: 1:25-1:100
Related Product Information for anti-PAPSS1 antibody	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.
Other Notes	Small volumes of anti-PAPSS1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PAPSS1 purchase	MBS2517454 is an antibody targeting PAPSS1. Also known as PAPSS1 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Immunohistochemistry (IHC) of anti-PAPSS1 antibody
Immunohistochemistry of paraffin-embedded Human gasrtic cancer tissue using PAPSS1 Polyclonal Antibody at dilution 1:40

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PAPSS1. It may not necessarily be applicable to this product.

NCBI GI #	48146173
NCBI GeneID	9061
NCBI Accession #	CAG33309.1
UniProt Primary Accession #	Q6IAX6
UniProt Related Accession #	O43252
NCBI Official Full Name	PAPSS1
NCBI Official Synonym Full Names	3'-phosphoadenosine 5'-phosphosulfate synthase 1
NCBI Official Symbol	PAPSS1
NCBI Official Synonym Symbols	SK1; PAPSS; ATPSK1
UniProt Protein Name	3'-phosphoadenosine 5'-phosphosulfate synthase 1
UniProt Synonym Protein Names	3'-phosphoadenosine 5'-phosphosulfate synthase 1
Protein Family	Bifunctional 3'-phosphoadenosine 5'-phosphosulfate synthase
UniProt Gene Name	PAPSS1
UniProt Entry Name	Q6IAX6_HUMAN
NCBI Protein Information	bifunctional 3'-phosphoadenosine 5'-phosphosulfate synthase 1; 3-prime-phosphoadenosine 5-prime-phosphosulfate synthase 1; PAPS synthase 1; PAPSS 1; SK 1; sulfurylase kinase 1
NCBI Summary for PAPSS1	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]

UniProt Comments for PAPSS1	PAPSS1: 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. Protein type: Other Amino Acids Metabolism - selenoamino acid; Nucleotide Metabolism - purine; Energy Metabolism - sulfur; EC 2.7.1.25; EC 2.7.7.4; Kinase, other Chromosomal Location of Human Ortholog: 4q24 Cellular Component: cytosol Molecular Function: adenylylsulfate kinase activity; ATP binding; sulfate adenylyltransferase (ATP) activity; nucleotidyltransferase activity Biological Process: sulfate assimilation; glycosaminoglycan metabolic process; xenobiotic metabolic process; carbohydrate metabolic process; pathogenesis; skeletal development; phosphorylation; 3'-phosphoadenosine 5'-phosphosulfate metabolic process; 3'-phosphoadenosine 5'-phosphosulfate biosynthetic process
Research Articles on PAPSS1	**1.** SK1 positivity and high expression were significantly associated with cancer and a shorter 5-year and overall survival.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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