

PAPSS1/PAPSS2 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP2607d**Specification****PAPSS1/PAPSS2 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [095340](#)**PAPSS1/PAPSS2 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 9060**Other Names**

Bifunctional 3'-phosphoadenosine 5'-phosphosulfate synthase 2, PAPS synthase 2, PAPSS 2, Sulfurylase kinase 2, SK 2, SK2, Sulfate adenylyltransferase, ATP-sulfurylase, Sulfate adenylate transferase, SAT, Adenylyl-sulfate kinase, 3'-phosphoadenosine-5'-phosphosulfate synthase, APS kinase, Adenosine-5'-phosphosulfate 3'-phosphotransferase, Adenylylsulfate 3'-phosphotransferase, PAPSS2, ATPSK2

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP2607d](#) was selected from the N-term region of human PAPSS1/PAPSS2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic

PAPSS1/PAPSS2 Antibody (N-term) Blocking Peptide - Background

Three-prime-phosphoadenosine 5-prime-phosphosulfate (PAPS) is the sulfate donor cosubstrate for all sulfotransferase (SULT) enzymes. 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.

PAPSS1/PAPSS2 Antibody (N-term) Blocking Peptide - References

Venkatachalam, K.V., IUBMB Life 55(1):1-11 (2003). Xu, Z.H., et al., Biochem. Biophys. Res. Commun. 268(2):437-444 (2000). Venkatachalam, K.V., et al., J. Biol. Chem. 273(30):19311-19320 (1998). ul Haque, M.F., et al., Nat. Genet. 20(2):157-162 (1998). Girard, J.P., et al., FASEB J. 12(7):603-612 (1998).

procedures.

**PAPSS1/PAPSS2 Antibody (N-term) Blocking
Peptide - Protein Information**

Name PAPSS2

Synonyms ATPSK2

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. May have an important role in skeletogenesis during postnatal growth (By similarity).

Tissue Location

Expressed in cartilage and adrenal gland.

**PAPSS1/PAPSS2 Antibody (N-term)
Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)