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PAPS2 Antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI16113

Product Information

Application	WB
Primary Accession	O95340
Other Accession	NP_004661
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	69501

Additional Information

Gene ID	9060
Alias Symbol	PAPSS2, ATPSK2,
Other Names	Bifunctional 3'-phosphoadenosine 5'-phosphosulfate synthase 2, PAPS synthase 2, PAPSS 2, Sulfurylase kinase 2, SK 2, SK2, Sulfate adenylyltransferase, 2.7.7.4, ATP-sulfurylase, Sulfate adenylate transferase, SAT, Adenylyl-sulfate kinase, 2.7.1.25, 3'-phosphoadenosine-5'-phosphosulfate synthase, APS kinase, Adenosine-5'-phosphosulfate 3'-phosphotransferase, Adenylylsulfate 3'-phosphotransferase, PAPSS2, ATPSK2
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 &mu, l of distilled water. Final Anti-PAPS2 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles.
Precautions	PAPS2 Antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

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, the activated sulfate donor used by sulfotransferases (PubMed:11773860, PubMed:19474428, PubMed:23824674, PubMed:25594860). In mammals, PAPS is the sole source of sulfate while APS appears to only be an intermediate in the sulfate-activation pathway (PubMed:11773860, PubMed:19474428, PubMed:23824674, PubMed:25594860). Plays indirectly an important role in skeletogenesis during postnatal growth (PubMed:9771708).
Tissue Location	Expressed in cartilage and adrenal gland.

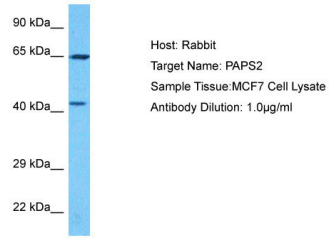
Background

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 a important role in skeletogenesis during postnatal growth (By similarity).

References

ul Haque M.F.,et al.Nat. Genet. 20:157-162(1998).
Franzon V.L.,et al.Submitted (JUN-1998) to the EMBL/GenBank/DDBJ databases.
Fuda H.,et al.Submitted (OCT-2000) to the EMBL/GenBank/DDBJ databases.
Xu Z.-H.,et al.Biochem. Biophys. Res. Commun. 268:437-444(2000).
Kurima K.,et al.J. Biol. Chem. 274:33306-33312(1999).

Images



Host: Rabbit
Target Name: PAPS2
Sample Tissue: MCF7 Whole Cell lysates
Antibody Dilution: 1.0µg/ml