

**PAPS2 Antibody - C-terminal region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI16113**

**Specification**

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**PAPS2 Antibody - C-terminal region - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">O95340</a>
Other Accession	<a href="#">NP_004661</a>
Reactivity	<b>Human</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>67kDa KDa</b>

**PAPS2 Antibody - C-terminal region - 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 adenylyl 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.

**PAPS2 Antibody - C-terminal region - 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:<a href="http://www.uniprot.org/citations/11773860" target="\_blank">11773860</a>, PubMed:<a href="http://www.uniprot.org/citations/19474428" target="\_blank">19474428</a>, PubMed:<a href="http://www.uniprot.org/citations/23824674" target="\_blank">23824674</a>, PubMed:<a href="http://www.uniprot.org/citations/25594860" target="\_blank">25594860</a>). In mammals, PAPS is the sole source of sulfate while APS appears to only be an intermediate in the sulfate-activation pathway (PubMed:<a href="http://www.uniprot.org/citations/11773860" target="\_blank">11773860</a>, PubMed:<a href="http://www.uniprot.org/citations/19474428" target="\_blank">19474428</a>, PubMed:<a href="http://www.uniprot.org/citations/23824674" target="\_blank">23824674</a>, PubMed:<a href="http://www.uniprot.org/citations/25594860" target="\_blank">25594860</a>). Plays indirectly an important role in skeletogenesis during postnatal growth (PubMed:<a href="http://www.uniprot.org/citations/9771708" target="\_blank">9771708</a>).

### Tissue Location

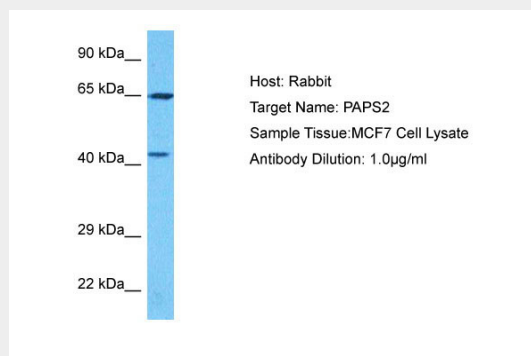
Expressed in cartilage and adrenal gland.

### PAPS2 Antibody - C-terminal region - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### PAPS2 Antibody - C-terminal region - Images



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

### PAPS2 Antibody - C-terminal region - 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).

#### **PAPS2 Antibody - C-terminal region - 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).