

**UAP1 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP17782b****Specification**

---

**UAP1 Antibody (C-term) - Product Information**

|                   |                                                      |
|-------------------|------------------------------------------------------|
| Application       | WB,E                                                 |
| Primary Accession | <a href="#">O16222</a>                               |
| Other Accession   | <a href="#">O91YN5</a> , <a href="#">NP_003106.3</a> |
| Reactivity        | Human                                                |
| Predicted         | Mouse                                                |
| Host              | Rabbit                                               |
| Clonality         | Polyclonal                                           |
| Isotype           | Rabbit IgG                                           |
| Calculated MW     | 58769                                                |
| Antigen Region    | 390-418                                              |

**UAP1 Antibody (C-term) - Additional Information****Gene ID** 6675**Other Names**

UDP-N-acetylhexosamine pyrophosphorylase, Antigen X, AGX, Sperm-associated antigen 2, UDP-N-acetylgalactosamine pyrophosphorylase, AGX-1, UDP-N-acetylglucosamine pyrophosphorylase, AGX-2, UAP1, SPAG2

**Target/Specificity**

This UAP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 390-418 amino acids from the C-terminal region of human UAP1.

**Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

UAP1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**UAP1 Antibody (C-term) - Protein Information**

**Name** UAP1 {ECO:0000303|PubMed:9603950, ECO:0000312|HGNC:HGNC:12457}

**Function** Catalyzes the last step in biosynthesis of uridine diphosphate-N-acetylglucosamine (UDP-GlcNAc) by converting UTP and glucosamine 1-phosphate (GlcNAc-1-P) to the sugar nucleotide (PubMed:[9603950](#), PubMed:[9765219](#)). Also converts UTP and galactosamine 1-phosphate (GalNAc-1-P) into uridine diphosphate-N-acetylgalactosamine (UDP-GalNAc) (PubMed:[9765219](#)). In addition to its role in metabolism, acts as a regulator of innate immunity in response to virus infection by mediating pyrophosphorylation of IRF3: catalyzes pyrophosphorylation of IRF3 phosphorylated at 'Ser-386' by TBK1, promoting IRF3 dimerization and activation, leading to type I interferon responses (PubMed:[36603579](#)).

#### Cellular Location

Cytoplasm, cytosol. Note=In spermatozoa, localized to the principal piece of the tail, the neck region of the head and to a lesser extent, the midpiece of the tail.

#### Tissue Location

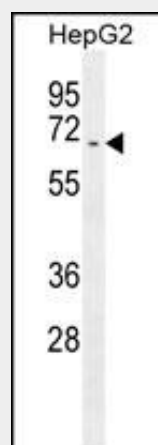
Widely expressed (PubMed:8025165). Expressed at low level in placenta, muscle and liver (PubMed:8025165) [Isoform AGX2]: Isoform AGX2 is more abundant than isoform AGX1 in somatic tissue.

### UAP1 Antibody (C-term) - 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](#)

### UAP1 Antibody (C-term) - Images



UAP1 Antibody (C-term) (Cat. #AP17782b) western blot analysis in HepG2 cell line lysates (35ug/lane). This demonstrates the UAP1 antibody detected the UAP1 protein (arrow).

### UAP1 Antibody (C-term) - Background

UAP1 converts UDP and GlcNAc-1-P into UDP-GlcNAc, and UDP and GalNAc-1-P into UDP-GalNAc. Isoform AGX1 has 2 to 3 times higher activity towards GalNAc-1-P, while isoform AGX2 has 8 times more activity towards GlcNAc-1-P.

#### **UAP1 Antibody (C-term) - References**

Ehret, G.B., et al. Eur. J. Hum. Genet. 17(12):1650-1657(2009)  
Wang, A.G., et al. Biochem. Biophys. Res. Commun. 345(3):1022-1032(2006)  
Peneff, C., et al. EMBO J. 20(22):6191-6202(2001)  
Wang-Gillam, A., et al. J. Biol. Chem. 273(42):27055-27057(1998)  
Diekman, A.B., et al. Mol. Reprod. Dev. 50(3):284-293(1998)