

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

UAP1 Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	Q16222
Other Accession	Q91YN5 , NP_003106.3
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

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

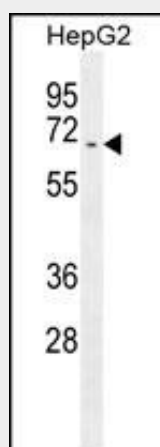
Widely expressed (PubMed:8025165). Expressed at low level in placenta, muscle and liver (PubMed:8025165) [Isoform AGX2]: Isoform AGX2 is more abundant than isoform AGX1 in somatic tissue.

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)
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