

UAP1 Antibody

Rabbit mAb

Catalog # AP91669

Product Information

Application	WB, IHC, IF, FC, ICC, IP, IHF
Primary Accession	Q16222
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	AGX; AGX1; AntigenX; SPAG2; Sperm associated antigen 2; uap1;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	58769

Additional Information

Dilution	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 IP 1:50 FC 1:100
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human UAP1
Description	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.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

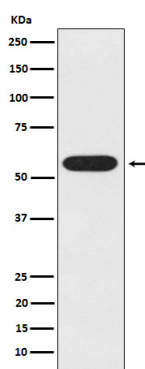
Protein Information

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.

Images



Western blot analysis of UAP1 expression in Jurkat cell lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.