

Anti-UAP1 Rabbit Monoclonal Antibody

Catalog # ABO15249

Product Information

Application	WB, IHC, IF, ICC, IP, FC
Primary Accession	Q16222
Host	Rabbit
Isotype	IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid
Description	Anti-UAP1 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

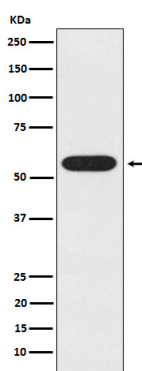
Additional Information

Gene ID	6675
Other Names	UDP-N-acetylhexosamine pyrophosphorylase, Antigen X, AGX, Protein-pyrophosphorylation enzyme, 2.7.4.-, Sperm-associated antigen 2, UDP-N-acetylgalactosamine pyrophosphorylase, 2.7.7.83, UDP-N-acetylglucosamine pyrophosphorylase, 2.7.7.23, UAP1 {ECO:0000303 PubMed:9603950, ECO:0000312 HGNC:HGNC:12457}
Calculated MW	58769
Application Details	WB 1:500-1:2000 IHC 1:50-1:200 ICC/IF 1:50-1:200 IP 1:50 FC 1:100
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: 18U25
Immunogen	A synthesized peptide derived from human UAP1
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

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.

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