

UCK2 Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7192B**Specification**

UCK2 Antibody (C-term) - Product Information

Application	FC, IHC-P, WB,E
Primary Accession	Q9BZX2
Other Accession	Q9OYG8 , Q99PM9
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	29299
Antigen Region	227-255

UCK2 Antibody (C-term) - Additional Information**Gene ID** 7371**Other Names**

Uridine-cytidine kinase 2, UCK 2, Cytidine monophosphokinase 2, Testis-specific protein TSA903, Uridine monophosphokinase 2, UCK2, UMPK

Target/Specificity

This UCK2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 227-255 amino acids from the C-terminal region of human UCK2.

Dilution

FC~~1:10~50

IHC-P~~1:10~50

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 prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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

UCK2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

UCK2 Antibody (C-term) - Protein Information

Name UCK2

Synonyms UMPK

Function Phosphorylates uridine and cytidine to uridine monophosphate and cytidine monophosphate (PubMed:[11306702](#), PubMed:[11494055](#)). Does not phosphorylate deoxyribonucleosides or purine ribonucleosides (PubMed:[11306702](#)). Can use ATP or GTP as a phosphate donor (PubMed:[11306702](#)). Can also phosphorylate cytidine and uridine nucleoside analogs such as 6-azauridine, 5-fluorouridine, 4- thiouridine, 5-bromouridine, N(4)-acetylcytidine, N(4)-benzoylcytidine, 5-fluorocytidine, 2-thiocytidine, 5-methylcytidine, and N(4)- anisoylcytidine (PubMed:[11306702](#)).

Tissue Location

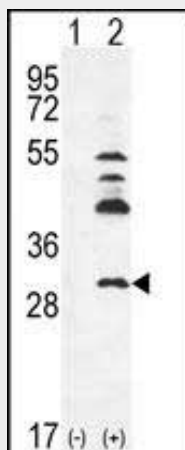
According to PubMed:8812458; testis-specific. According to PubMed:11306702, placenta-specific

UCK2 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](#)

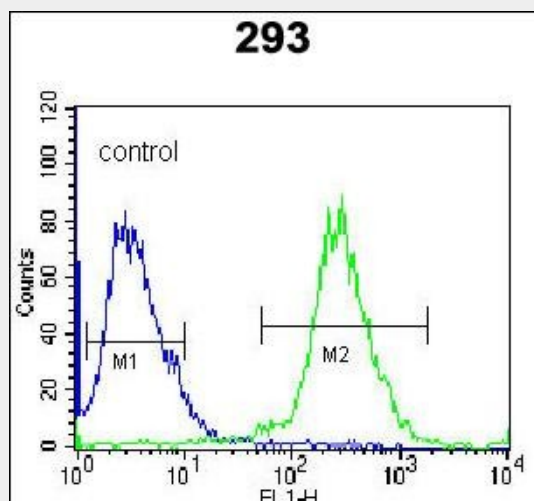
UCK2 Antibody (C-term) - Images



Western blot analysis of UCK2 (arrow) using rabbit polyclonal hUCK2-C241 (Cat. #AP7192b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the UCK2 gene.



UCK2 Antibody (C-term) (Cat. #AP7192b) immunohistochemistry analysis in formalin fixed and paraffin embedded human testis tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of UCK2 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



UCK2 Antibody (C-term) (Cat. #AP7192b) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

UCK2 Antibody (C-term) - Background

UCK2 catalyzes the phosphorylation of uridine monophosphate to uridine diphosphate. This is the first step in the production of the pyrimidine nucleoside triphosphates required for RNA and DNA synthesis. In addition, an allele of this gene may play a role in mediating nonhumoral immunity to *Hemophilus influenzae* type B.

UCK2 Antibody (C-term) - References

- Murata, D., et al., *Drug Metab. Dispos.* 32(10):1178-1182 (2004).
- Pasti, C., et al., *Eur. J. Biochem.* 270(8):1784-1790 (2003).
- Liou, J.Y., et al., *Cancer Res.* 62(6):1624-1631 (2002).
- Pearman, A.T., et al., *Life Sci.* 69(20):2361-2370 (2001).
- Van Rompay, A.R., et al., *Mol. Pharmacol.* 56(3):562-569 (1999).