

UCK2 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP7192a**Specification**

UCK2 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q9BZX2](#)**UCK2 Antibody (N-term) Blocking Peptide - 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

The synthetic peptide sequence used to generate the antibody [AP7192a](/product/products/AP7192a) was selected from the N-term region of human UCK2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

UCK2 Antibody (N-term) Blocking Peptide - Protein Information**Name** UCK2**Synonyms** UMPK**Function**

Phosphorylates uridine and cytidine to uridine monophosphate and cytidine monophosphate (PubMed: [11306702](http://www.uniprot.org/citations/11306702), PubMed: [11494055](http://www.uniprot.org/citations/11494055)). Does not phosphorylate deoxyribonucleosides or purine ribonucleosides (PubMed: [11306702](http://www.uniprot.org/citations/11306702)). Can use ATP or GTP as a phosphate donor (PubMed: [11306702](http://www.uniprot.org/citations/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 (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

UCK2 Antibody (N-term) Blocking Peptide - Images**UCK2 Antibody (N-term) Blocking Peptide - 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 (N-term) Blocking Peptide - 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).