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UCK2 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP7192a

Specification

UCK2 Antibody (N-term) Blocking Peptide - Product Information

Primary 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 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, 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 (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).