

UCK Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8129a**Specification**

UCK Antibody (N-term) - Product Information

Application	IHC-P, WB,E
Primary Accession	P30085
Other Accession	Q4KM73 , Q29561 , Q9DBP5 , Q2KIW9
Reactivity	Human, Mouse
Predicted	Bovine, Pig, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	18-48

UCK Antibody (N-term) - Additional Information**Gene ID** 51727**Other Names**

UMP-CMP kinase {ECO:0000255|HAMAP-Rule:MF_03172}, 27414
{ECO:0000255|HAMAP-Rule:MF_03172}, Deoxycytidylate kinase
{ECO:0000255|HAMAP-Rule:MF_03172}, CK {ECO:0000255|HAMAP-Rule:MF_03172}, dCMP kinase
{ECO:0000255|HAMAP-Rule:MF_03172}, Nucleoside-diphosphate kinase
{ECO:0000255|HAMAP-Rule:MF_03172}, 2746 {ECO:0000255|HAMAP-Rule:MF_03172}, Uridine
monophosphate/cytidine monophosphate kinase {ECO:0000255|HAMAP-Rule:MF_03172},
UMP/CMP kinase {ECO:0000255|HAMAP-Rule:MF_03172}, UMP/CMK
{ECO:0000255|HAMAP-Rule:MF_03172}, CMPK1 {ECO:0000255|HAMAP-Rule:MF_03172}

Target/Specificity

This UCK antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 18-48 amino acids from the N-terminal region of human UCK.

Dilution

IHC-P~~1:50~100

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

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

UCK Antibody (N-term) - Protein Information

Name CMPK1 {ECO:0000255|HAMAP-Rule:MF_03172}

Function Catalyzes the phosphorylation of pyrimidine nucleoside monophosphates at the expense of ATP. Plays an important role in de novo pyrimidine nucleotide biosynthesis. Has preference for UMP and CMP as phosphate acceptors. Also displays broad nucleoside diphosphate kinase activity.

Cellular Location

Nucleus {ECO:0000255|HAMAP-Rule:MF_03172, ECO:0000269|PubMed:10462544, ECO:0000269|PubMed:11912132}. Cytoplasm {ECO:0000255|HAMAP-Rule:MF_03172, ECO:0000269|PubMed:10462544, ECO:0000269|PubMed:11912132}. Note=Predominantly cytoplasmic, less than 15% nuclear.

Tissue Location

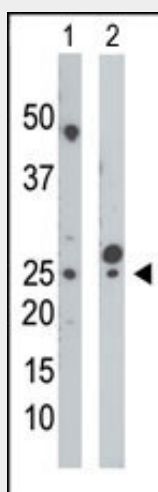
Ubiquitously expressed.

UCK Antibody (N-term) - Protocols

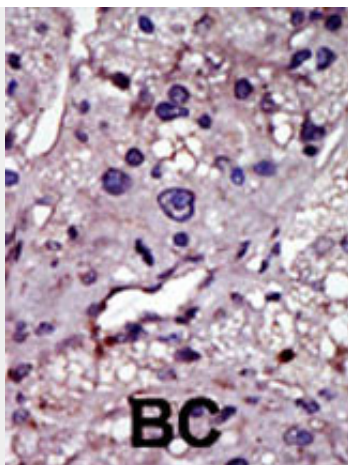
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

UCK Antibody (N-term) - Images



The anti-UCK Pab (Cat. #AP8129a) is used in Western blot to detect UCK in mouse cerebellum tissue lysate (Lane 1) and HepG2 cell lysate (Lane 2).



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

UCK Antibody (N-term) - Background

UCK1 (Uridine-cytidine kinase 1) phosphorylates uridine and cytidine to uridine monophosphate and cytidine monophosphate. This enzyme does not phosphorylate deoxyribonucleosides or purine ribonucleosides. Of note, UCK1 is able to use either ATP or GTP as a phosphate donor. UCK1 also possesses the ability to phosphorylate a number of 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.

UCK Antibody (N-term) - References

Strausberg, R.L., et al., Proc. Natl. Acad. Sci. U.S.A. 99(26):16899-16903 (2002).
Hu, R.M., et al., Proc. Natl. Acad. Sci. U.S.A. 97(17):9543-9548 (2000).
Hughes, G.J., et al., Electrophoresis 14(11):1216-1222 (1993).
Hochstrasser, D.F., et al., Electrophoresis 13(12):992-1001 (1992).

UCK Antibody (N-term) - Citations

- [Synthesis and biologic study of IV-14, a new ribonucleoside radiotracer for tumor visualization.](#)