

# UCK Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP8129B

## Product Information

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Application	WB, IHC-P, E
Primary Accession	<a href="#">P30085</a>
Other Accession	<a href="#">Q29561</a> , <a href="#">Q2KIW9</a>
Reactivity	Human, Mouse
Predicted	Bovine, Pig
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB3876
Calculated MW	22222
Antigen Region	132-162

## Additional Information

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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/CMPK {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 132-162 amino acids from the C-terminal region of human UCK.
Dilution	WB~~1:1000 IHC-P~~1:100~500 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 (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

<b>Name</b>	CMPK1 {ECO:0000255   HAMAP-Rule:MF_03172}
<b>Function</b>	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.
<b>Cellular Location</b>	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.
<b>Tissue Location</b>	Ubiquitously expressed.

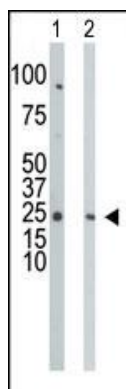
## Background

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.

## References

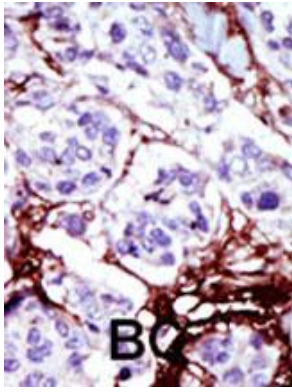
Strausberg, R.L., et al., Proc. Natl. Acad. Sci. U.S.A. 99(26):16899-16903 (2002).  
Hu, R.M., et al., Proc. Natl. Acad. Sci. U.S.A. 97(17):9543-9548 (2000).  
Hughes, G.J., et al., Electrophoresis 14(11):1216-1222 (1993).  
Hochstrasser, D.F., et al., Electrophoresis 13(12):992-1001 (1992).

## Images



The anti-UCK Pab (Cat. #AP8129b) is used in Western blot to detect UCK in HepG2 cell lysate (Lane 1) and mouse cerebellum tissue 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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.