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UCK2 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7192a

Product Information

Application	WB, IHC-P, E
Primary Accession	Q9BZX2
Other Accession	Q9QYG8, Q99PM9
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB5633, RB5634
Calculated MW	29299
Antigen Region	1-30

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 1-30 amino acids from the N-terminal region of human UCK2.
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	UCK2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	UCK2
Synonyms	UMPK

Function	Phosphorylates uridine and cytidine to uridine monophosphate and cytidine monophosphate (PubMed:11306702, PubMed:11494055, PubMed:35583288). 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

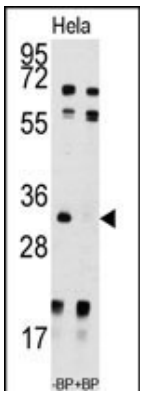
Background

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.

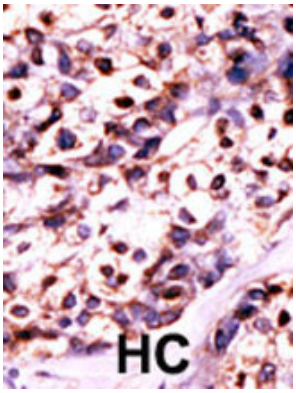
References

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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).

Images



Western blot analysis of anti-UCK2 Antibody (N-term)(Cat.#AP7192a) pre-incubated with and without blocking peptide (BP7192a) in Hela cell line lysate. UCK2(arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB 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'.