

Rabbit anti-Human UCK1 Polyclonal Antibody | anti-UCK1 antibody

Anti-UCK1 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA256470	Rabbit	Human	Immunofluorescence, Immunocytochemistry, Immunohistochemistry

PRODUCT SYNONYMS

UCK1; Polyclonal Antibody; Anti-UCK1 Antibody; Rabbit Polyclonal; UCK1 Antibody; Rabbit PAb; Antigen Affinity Purified; uridine-cytidine kinase 1; Anti-URK1 Antibody; anti-UCK1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human UCK1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-UCK1 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry)
Immunogen	E Coli-derived Human UCK1 fragment
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with E Coli-derived Human UCK1 fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

IMAGES



IF (Immunofluorescence)

Immunofluorescence staining of UCK1 in U2OS cells. Cells were fixed with 4% PFA, permeabilized with 0.1% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human UCK1 polyclonal antibody (dilution ratio 1:200) at 4 degree C overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green). Positive staining was localized to Nucleus.



IHC (Immunohistochemistry)

Immunochemical staining of human UCK1 in human large intestine with rabbit polyclonal antibody at 1:500 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)

Immunochemical staining of human UCK1 in human liver with rabbit polyclonal antibody at 1:500 dilution, formalin-fixed paraffin embedded sections.

ADDITIONAL INFORMATION

Related Product Information for anti-UCK1 antibody	The uridine/cytidine kinase (UCK) family consists of two members, UCK1 and UCK2, and both UCKs are expressed in many tumor cells. UCK1 has an established role in activating 5'-azacytidine (5'-AZA) and its protein level is significantly downregulated in patients resistant to the drug. The KLHL2/USP28/ATM axis mediates resistance of AML cells to 5'-AZA by regulating UCK1 ubiquitination and phosphorylation. UCK2, an enzyme normally expressed in human placenta and testis and highly overexpressed in many neoplasias of blood and solid tissues, catalyzes monophosphorylation of pyrimidine ribonucleosides with efficiency 15-to 20-fold higher than that of ubiquitously expressed isozyme UCK1. Uridine-cytidine kinases (encoded by UCK1, UCKL1, and UCK2) catalyze the phosphorylation of uridine and cytidine to uridine monophosphate (UMP) and cytidine monophosphate (CMP).
References	Zlatopolskiy BD, et al. (2009) Synthesis and biologic study of iv-14, a new ribonucleoside radiotracer for tumor visualization. J Nucl Med 50 (11): 1895-1903.Zhang H, et al. (2020) Deubiquitinase usp28 inhibits ubiquitin ligase klhl2-mediated uridine-cytidine kinase 1 degradation and confers sensitivity to 5'-azacytidine-resistant human leukemia cells. Theranostics 10 (3): 1046-1059.Yu S, et al. (2019) Uck2 upregulation might serve as an indicator of unfavorable prognosis of hepatocellular carcinoma. IUBMB Life 71 (1): 105-112.Murata D, et al. (2004) A crucial role of uridine/cytidine kinase 2 in antitumor activity of 3'-ethynyl nucleosides. Drug Metab Dispos 32 (10): 1178-1182.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/uck1-antibody-immunofluorescence-immunocytochemistry-immunohistochemistry-elisa/256470>