

For Research Use Only

# UCK1 Polyclonal antibody

Catalog Number: 12271-1-AP

6 Publications



## Basic Information

### Catalog Number:

12271-1-AP

### Size:

150ul, Concentration: 700 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG2912

### GenBank Accession Number:

BC015547

### GeneID (NCBI):

83549

### UNIPROT ID:

Q9HA47

### Full Name:

uridine-cytidine kinase 1

### Calculated MW:

277 aa, 31 kDa

### Observed MW:

33 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:500-1:1000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IF/ICC: 1:10-1:100

## Applications

### Tested Applications:

WB, IF/ICC, IP, ELISA

### Cited Applications:

WB, IF, IP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

### Positive Controls:

WB: HEK-293T cells, MCF-7 cells

IP: MCF-7 cells,

IF/ICC: MCF-7 cells,

## Background Information

Uridine/cytidine kinase-1 is a pyrimidine ribonucleoside kinase that catalyzes the phosphorylation of uridine and cytidine to form uridine monophosphate (UMP) and cytidine monophosphate (CMP). The deduced 277-amino acid protein has a calculated molecular mass of 31 kDa. UCK1 belongs to the uridine kinase family and UCK have important roles for the phosphorylation of nucleoside analogs that may be important in chemotherapy of cancer.

## Notable Publications

Author	Pubmed ID	Journal	Application
Nao Yoshida-Sakai	34913485	Int J Cancer	WB
Nannan Sha	39865175	Oncogene	WB
Brittany Q Pham	39808525	Cell Rep	WB,IP,IF

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

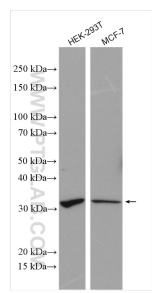
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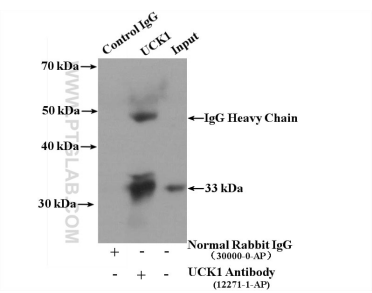
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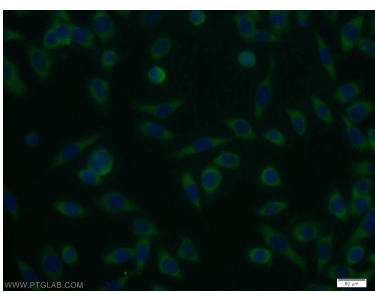
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 12271-1-AP (UCK1 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



IP result of anti-UCK1 (IP:12271-1-AP, 4ug; Detection:12271-1-AP 1:1000) with MCF-7 cells lysate 2800ug.



Immunofluorescent analysis of MCF-7 cells using 12271-1-AP (UCK1 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).