

For Research Use Only

# UGP2 Polyclonal antibody

Catalog Number: 10391-1-AP

Featured Product

5 Publications



## Basic Information

### Catalog Number:

10391-1-AP

### Size:

150ul, Concentration: 300 ug/ml by Nanodrop and 233 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG0590

### GenBank Accession Number:

BC002954

### GeneID (NCBI):

7360

### UNIPROT ID:

Q16851

### Full Name:

UDP-glucose pyrophosphorylase 2

### Calculated MW:

56 kDa

### Observed MW:

50-56 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

IHC 1:20-1:200

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB, IHC

### Species Specificity:

human, mouse, rat

### Cited Species:

human, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB:** HepG2 cells, mouse liver tissue, HeLa cells, HEK-293 cells, rat liver tissue

**IHC:** human ovary tumor tissue, human liver cancer tissue

## Background Information

UDP-glucose pyrophosphorylase 2 (UGP2, synonyms: UDPG, UGPP2, UDPGP2, Phc379) is an important intermediary in mammalian carbohydrate interconversions. It transfers a glucose moiety from glucose-1-phosphate to MgUTP and forms UDP-glucose and MgPPi. In liver and muscle tissue, UDP-glucose is a direct precursor of glycogen; in lactating mammary gland it is converted to UDP-galactose which is then converted to lactose. So far two isoforms are encoded by two transcript variants have been found.

## Notable Publications

Author	Pubmed ID	Journal	Application
Qiuyue Hu	32733617	Dis Markers	IHC
Chun Zeng	30816613	J Cell Biochem	WB
Dong-Xue Ding	35281731	iScience	WB

## Storage

### Storage:

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

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

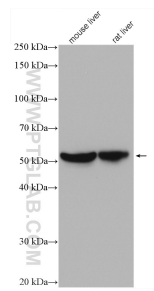
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

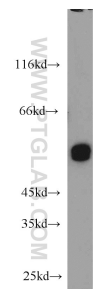
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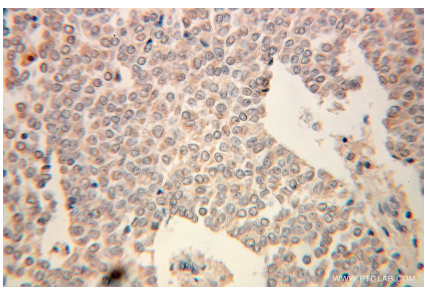
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 10391-1-AP (UGP2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



HepG2 cells were subjected to SDS PAGE followed by western blot with 10391-1-AP (UGP2 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovary tumor using 10391-1-AP (UGP2 antibody) at dilution of 1:100 (under 25x lens).