

# UGP2 Monoclonal antibody

Catalog Number: 68381-1-Ig

## Basic Information

Catalog Number: 68381-1-Ig	GenBank Accession Number: BC002954	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 7360	CloneNo.: 1G11G6
Source: Mouse	UNIPROT ID: Q16851	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:1000-1:4000
Isotype: IgG2b	Full Name: UDP-glucose pyrophosphorylase 2	
Immunogen Catalog Number: AG33160	Calculated MW: 56 kDa Observed MW: 50-56 kDa	

## Applications

Tested Applications: IHC, WB, ELISA	Positive Controls:
Species Specificity: Human, mouse, Rat, Pig, Rabbit	WB : HEK-293 cells, pig liver tissue, LNCaP cells, rabbit liver tissue, rat liver tissue, mouse liver tissue
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	IHC : human liver cancer tissue,

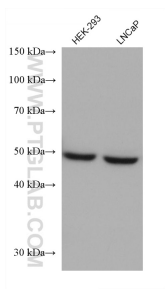
## Background Information

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.

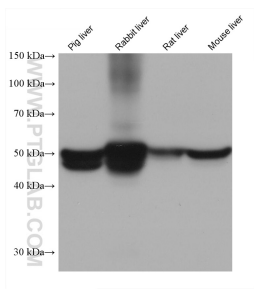
## Storage

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

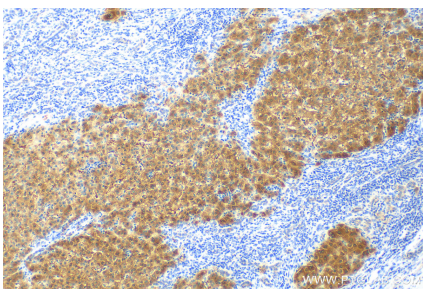
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68381-1-Ig (UGP2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 68381-1-Ig (UGP2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 68381-1-Ig (UGP2 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).