

**UGP2 Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP2760b****Specification**

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**UGP2 Antibody (C-term) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">Q16851</a>
Other Accession	<a href="#">P79303</a> , <a href="#">Q91ZJ5</a> , <a href="#">O35156</a> , <a href="#">Q07130</a>
Reactivity	Human
Predicted	Bovine, Hamster, Mouse, Pig
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	467-497

**UGP2 Antibody (C-term) - Additional Information****Gene ID** 7360**Other Names**

UTP--glucose-1-phosphate uridylyltransferase, UDP-glucose pyrophosphorylase, UDPGP, UGPase, UGP2, UGP1

**Target/Specificity**

This UGP2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 467-497 amino acids from the C-terminal region of human UGP2.

**Dilution**

WB~~1:2000

IHC-P~~1:10~50

**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**

UGP2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**UGP2 Antibody (C-term) - Protein Information****Name** UGP2 ([HGNC:12527](#))

**Function** UTP--glucose-1-phosphate uridylyltransferase catalyzing the conversion of glucose-1-phosphate into UDP-glucose, a crucial precursor for the production of glycogen.

**Cellular Location**

Cytoplasm

**Tissue Location**

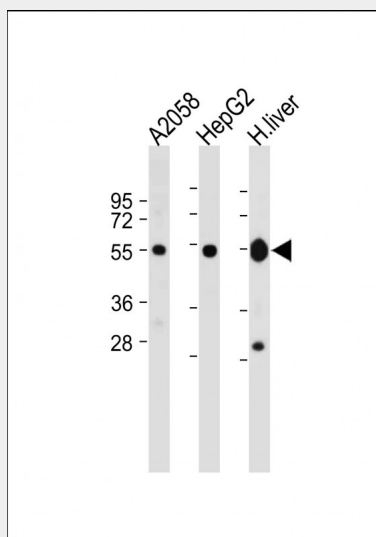
Highly expressed in various brain regions. Expressed in amygdala, anterior cingulate cortex, caudate, cerebellar hemisphere, cerebellum, cortex, frontal cortex, hippocampus, hypothalamus, nucleus accumbens, putamen, spinal cord and substantia nigra (PubMed:31820119). Also widely expressed among other tissues, including liver, heart, placenta, lung, kidney, pancreas and skeletal muscle (PubMed:8354390, PubMed:8631325).

**UGP2 Antibody (C-term) - Protocols**

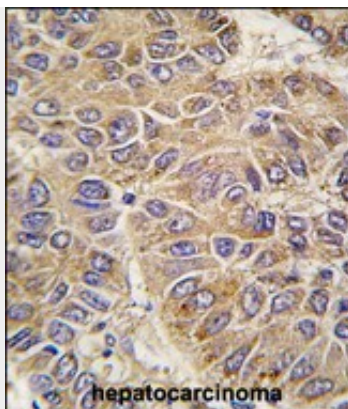
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**UGP2 Antibody (C-term) - Images**



All lanes : Anti-UGP2 Antibody (C-term) at 1:2000 dilution Lane 1: A2058 whole cell lysate Lane 2: HepG2 whole cell lysate Lane 3: Human liver lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 57 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with UGP2 antibody (C-term) (Cat.#AP2760b), 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.

#### **UGP2 Antibody (C-term) - Background**

UGP2 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. The eukaryotic enzyme has no significant sequence similarity to the prokaryotic enzyme.

#### **UGP2 Antibody (C-term) - References**

Ewing, R.M., Mol. Syst. Biol. 3, 89 (2007) Wistow, G., (er) Mol. Vis. 8, 205-220 (2002) Chang, H.Y., Eur. J. Biochem. 236 (2), 723-728 (1996)

#### **UGP2 Antibody (C-term) - Citations**

- [Expression of UGP2 and CFL1 expression levels in benign and malignant pancreatic lesions and their clinicopathological significance.](#)
- [SHP2 and UGP2 are Biomarkers for Progression and Poor Prognosis of Gallbladder Cancer.](#)