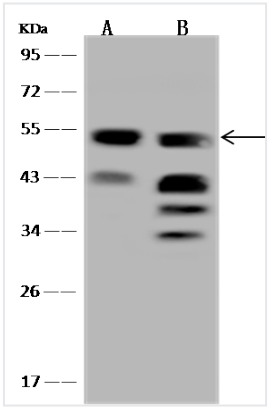
UGP2 Antibody – Rabbit Polyclonal

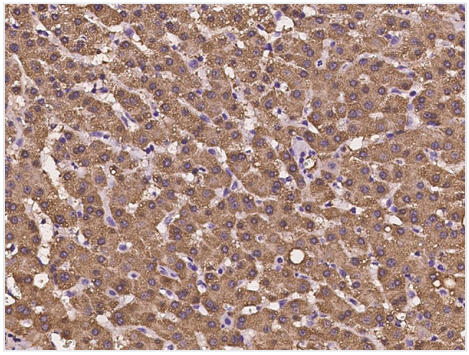
PRODUCT OVERVIEW

Product Name	UGP2, Polyclonal Antibody
Full Product Name	Anti-UGP2 Antibody, Rabbit Polyclonal
Product Gene Name	anti-UGP2 antibody
Product Synonym Names	UGP2 Antibody, Rabbit PAb, Antigen Affinity Purified; UDP-glucose pyrophosphorylase 2; Anti-pHC379 Antibody; Anti-UDPG Antibody; Anti-UDPGP Antibody; Anti-UDPGP2 Antibody; Anti-UGP1 Antibody; Anti-UGPP1 Antibody; Anti-UGPP2 Antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Purity/Purification	Protein A & Antigen Affinity
Specificity	Human UGP2
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.
Immunogen	E Coli-derived Human UGP2 fragment
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with E Coli-derived Human UGP2 fragment, and purified by antigen affinity chromatography.
Applications Tested/Suitable for anti-UGP2 antibody	Western Blot (WB), Immunohistochemistry-Paraffin (IHC-P), Immunoprecipitation (IP)
Application Notes for anti-UGP2 antibody	WB: 1:500-1:2000 IHC-P: 1:50-1:200 IP: 1-5uL/mg of lysate
Related Product Information for anti-UGP2 antibody	Uridine diphosphate-glucose pyrophosphorylase 2 (UGP2), a key enzyme in glycogen biosynthesis, is associated with the occurrence and development of various cancer types. UDP-glucose (UDP-Glc) is synthesized by UGP2-encoded UDP-Glc pyrophosphorylase (UGP) and is required for glycoconjugate biosynthesis and galactose metabolism because it is a uridyl donor for galactose-1-P (Gal1P) uridyltransferase. Chinese hamster lung fibroblasts harboring a hypomrphic UGP(G116D) variant display reduced UDP-Glc levels and cannot grow if galactose is the sole carbon source. UGP2 may contribute to the progression of HCC, indicating a potential therapeutic target for HCC patients. The high content of UGP2 in Rendement Napole (RN) mutant animals may contribute to high glycogen storage. The rice (Oryza sativa) genome contains two homologous UDP-glucose pyrophosphorylase (UGPase) genes, Ugp1 and Ugp2.
Product References and Citations for anti-UGP2 antibody	Huang H, et al. (2018) Quantitative proteomics and phosphoproteomics analysis revealed different regulatory mechanisms of halothane and rendement napole genes in porcine muscle metabolism. J Proteome Res 17 (8): 2834-2849.Hu Q, et al. (2020) Low ugp2 expression is associated with tumour progression and predicts poor prognosis in hepatocellular carcinoma. Dis Markers 2020 3231273.Durrant C, et al. (2020) Defects in galactose metabolism and glycoconjugate biosynthesis in a udp-glucose pyrophosphorylase-deficient cell line are reversed by adding galactose to the growth medium. Int J Mol Sci 21 (6): 2028.Chen R, et al. (2007) Rice udp-glucose pyrophosphorylase1 is essential for pollen callose deposition and its cosuppression results in a new type of thermosensitive genic male sterility. Plant Cell 19 (3): 847-861.

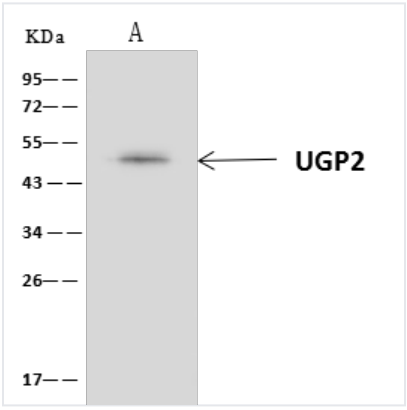
Other Notes	Small volumes of anti-UGP2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for UGP2 purchase	MBS8109619 is an antibody targeting UGP2. Also known as Anti-UGP2 Antibody, Rabbit Polyclonal. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-UGP2 antibody
Anti-UGP2 rabbit polyclonal antibody at 1:500 dilution Lane A: HepG2 Whole Cell Lysate Lane B: HeLa Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size:37 kDa Observed band size:50 kDa



Immunohistochemistry (IHC) of anti-UGP2 antibody
Immunochemical staining of human UGP2 in human liver with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.



Immunoprecipitation (IP) of anti-UGP2 antibody
UGP2 was immunoprecipitated using: Lane A:0.5 mg HeLa Whole Cell Lysate 4 uL anti-UGP2 rabbit polyclonal antibody and 60 ug of Immunomagnetic beads Protein A/G. Primary antibody: Anti-UGP2 rabbit polyclonal antibody,at 1:100 dilution Secondary antibody: Clean-Blot IP Detection Reagent (HRP) at 1:1000dilution Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 37 kDa Observed band size :50 kDa

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