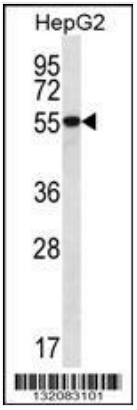
UGDH Antibody – Rabbit Polyclonal

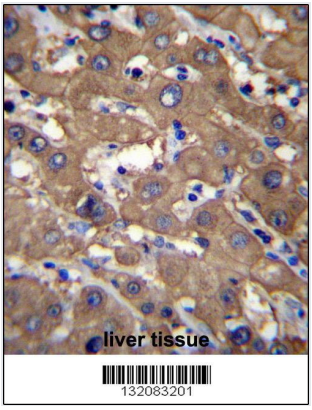
PRODUCT OVERVIEW

Product Name	UGDH, Polyclonal Antibody
Full Product Name	UGDH, CT (UGDH, UDP-glucose 6-dehydrogenase) (AP)
Product Gene Name	anti-UGDH antibody
Product Synonym Names	UGDH; UDP-glucose 6-dehydrogenase
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
OMIM	603370
3D Structure	ModBase 3D Structure for O60701
Immunogen	UGDH antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 464-494 amino acids from the C-terminal region of human UGDH.
Conjugate	AP
Note	Preservative Free
Product Categories/Family for anti-UGDH antibody	Antibodies; Enzymes; Dehydrogenase
Applications Tested/Suitable for anti-UGDH antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-UGDH antibody	IHC: 1:10-50 ELISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-UGDH antibody	The protein encoded by this gene converts UDP-glucose to UDP-glucuronate and thereby participates in the biosynthesis of glycosaminoglycans such as hyaluronan, chondroitin sulfate, and heparan sulfate. These glycosylated compounds are common components of the extracellular matrix and likely play roles in signal transduction, cell migration, and cancer growth and metastasis. The expression of this gene is up-regulated by transforming growth factor beta and down-regulated by hypoxia. Alternative splicing results in multiple transcript variants.
Product References and Citations for anti-UGDH antibody	Wang, T.P., et al. Exp. Cell Res. 316(17):2893-2902(2010). Hodgkinson, C.A., et al. Proc. Natl. Acad. Sci. U.S.A. 107(19):8695-8700(2010). Huang, D., et al. Int. J. Cancer 126(2):315-327(2010). Lee, H.S., et al. Arch. Biochem. Biophys. 486(1):35-43(2009). Pan, Y.R., et al. Cell. Microbiol. 10(12):2447-2460(2008).
Other Notes	Small volumes of anti-UGDH 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 UGDH purchase	MBS6361124 is an antibody targeting UGDH. Also known as UGDH, CT (UGDH, UDP-glucose 6-dehydrogenase) (AP). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-UGDH antibody
UGDH Antibody (C-term) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the UGDH antibody detected the UGDH protein (arrow).



Immunohistochemistry (IHC) of anti-UGDH antibody
UGDH Antibody (C-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of UGDH Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for UGDH. It may not necessarily be applicable to this product.

NCBI GI #	4507813
NCBI GeneID	7358
NCBI Accession #	NP_003350.1
NCBI Related Accession #	NP_001171629.1
UniProt Primary Accession #	O60701
UniProt Related Accession #	O60701
GenBank Nucleotide #	NP_003350.1
NCBI Official Full Name	UDP-glucose 6-dehydrogenase isoform 1
NCBI Official Synonym Full Names	UDP-glucose 6-dehydrogenase
NCBI Official Symbol	UGDH
NCBI Official Synonym Symbols	GDH; UGD; EIEE84; UDPGDH; UDP-GlcDH
UniProt Protein Name	UDP-glucose 6-dehydrogenase
UniProt Gene Name	UGDH
UniProt Synonym Gene Names	UDP-Glc dehydrogenase; UDP-GlcDH; UDPGDH
UniProt Entry Name	UGDH_HUMAN
NCBI Protein Information	UDP-glucose 6-dehydrogenase

UniProt Comments for UGDH	UGDH: Involved in the biosynthesis of glycosaminoglycans; hyaluronan, chondroitin sulfate, and heparan sulfate. Belongs to the UDP-glucose/GDP-mannose dehydrogenase family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 1.1.1.22; Carbohydrate Metabolism - starch and sucrose; Carbohydrate Metabolism - amino sugar and nucleotide sugar; Motility/polarity/chemotaxis; Oxidoreductase; Carbohydrate Metabolism - pentose and glucuronate interconversions; Carbohydrate Metabolism - ascorbate and aldarate Chromosomal Location of Human Ortholog: 4p15.1 Cellular Component: nucleoplasm; cytosol Molecular Function: electron carrier activity; NAD binding; UDP-glucose 6-dehydrogenase activity Biological Process: glycosaminoglycan biosynthetic process; xenobiotic metabolic process; gastrulation with mouth forming second; UDP-glucuronate biosynthetic process; UDP-glucose metabolic process
Research Articles on UGDH	**1.** This study defines UGDH as a key player for the production of extracellular matrix components that are essential for human brain development.
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