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UGDH Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12613b

Specification

UGDH Antibody (C-term) - Product Information

Application	**IHC-P, WB,E**
Primary Accession	O60701
Other Accession	O70199, O70475, NP_003350.1, NP_001171629.1
Reactivity	**Human**
Predicted	**Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**55024**
Antigen Region	**465-494**

UGDH Antibody (C-term) - Additional Information

Gene ID 7358

Other Names
UDP-glucose 6-dehydrogenase, UDP-Glc dehydrogenase, UDP-GlcDH, UDPGDH, UGDH

Target/Specificity
This UGDH antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 465-494 amino acids from the C-terminal region of human UGDH.

Dilution
IHC-P~~1:10~50
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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

UGDH Antibody (C-term) - Protein Information

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Name UGDH

Function Catalyzes the formation of UDP-alpha-D-glucuronate, a constituent of complex glycosaminoglycans (PubMed:21502315, PubMed:21961565, PubMed:22123821, PubMed:23106432, PubMed:25478983, PubMed:27966912, PubMed:30420606, PubMed:30457329). Required for the biosynthesis of chondroitin sulfate and heparan sulfate. Required for embryonic development via its role in the biosynthesis of glycosaminoglycans (By similarity). Required for proper brain and neuronal development (PubMed:32001716).

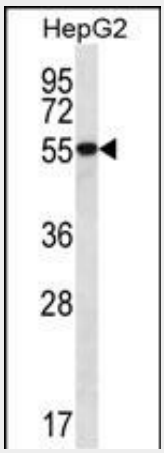
Tissue Location
Detected in heart, placenta, liver, pancreas, spleen, thymus, prostate, ovary, small intestine and colon (PubMed:9737970). Widely expressed (PubMed:9737970)

UGDH 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 Cytomety
- Cell Culture

UGDH Antibody (C-term) - Images



UGDH Antibody (C-term) (Cat. #AP12613b) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the UGDH antibody detected the UGDH protein (arrow).

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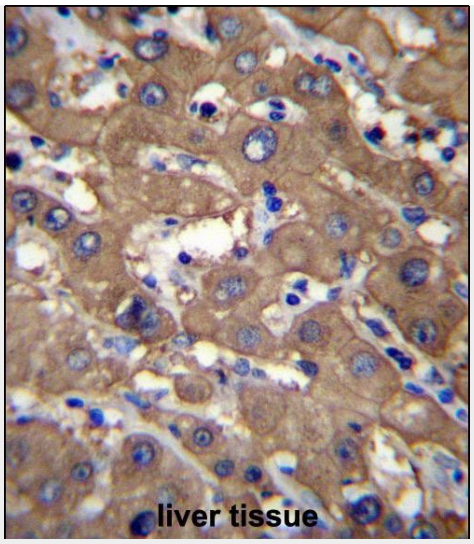

UGDH Antibody (C-term) (Cat. #AP12613b)immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of UGDH Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

UGDH Antibody (C-term) - Background

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.

UGDH Antibody (C-term) - References

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)