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UGDH Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12613b

Product Information

Application	WB, IHC-P, E
Primary Accession	O60701
Other Accession	O70199, O70475, NP_003350.1, NP_001171629.1
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32083
Calculated MW	55024
Antigen Region	465-494

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	WB~~1:1000 IHC-P~~1:100~500 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.

Protein Information

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)

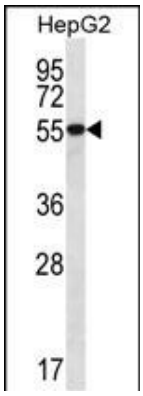
Background

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.

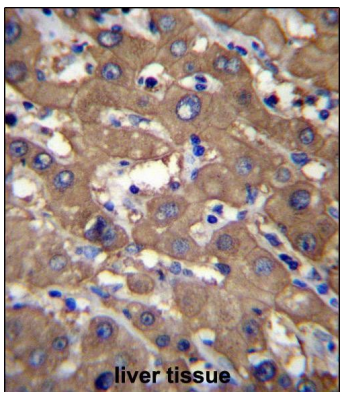
References

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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)
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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).



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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.