

Rabbit UGDH Polyclonal Antibody | anti-UGDH antibody

UGDH Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326118	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

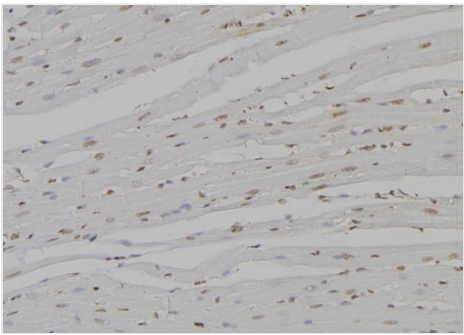
PRODUCT SYNONYMS

UGDH; Polyclonal Antibody; UGDH Antibody; GDH; UDP Glc dehydrogenase; UDP GlcDH; UDP glucose 6 dehydrogenase; UDP-Glc dehydrogenase; UDP-GlcDH; UDP-glucose 6-dehydrogenase; UDP-glucose dehydrogenase; UDPGDH; UGD; Ugdh; UGDH_HUMAN; Uridine diphospho glucose dehydrogenase; anti-UGDH antibody

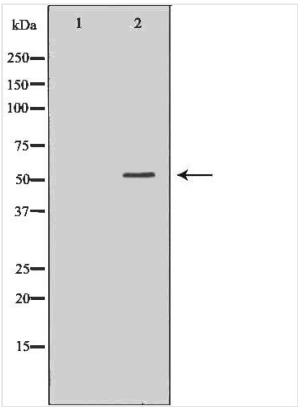
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	UGDH antibody detects endogenous levels of total UGDH
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	427
Applicable Applications for anti-UGDH antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human UGDH
Tissue Specificity	Widely expressed.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA326118 at 1/100 staining Rat heart tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of HepG2 using UGDH antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-UGDH antibody

Description: UDP-GlcDH (also called UDP-glucose 6-dehydrogenase, UGDH or UDPGDH) is a member of the UDP-glucose/GDP-mannose dehydrogenase family. UDP-GlcDH converts UDP-glucose to UDP-glucuronic acid, which is a crucial component in the biosynthesis of the glycosaminoglycans, hyaluronan, heparan sulfate and chondroitin sulfate. Found as common components of the extracellular matrix, these glycosaminoglycans are significant in signal transduction, cell migration, cancer growth and cancer metastasis. UDP-glucuronic acid (UDP-GlcA) is needed in the liver for the excretion of toxic compounds. UDP-GlcDH is a ubiquitously expressed protein most abundant in the liver. The protein structure of UDP-GlcDH was first analyzed in cow liver and found to be a homohexamer. This structure is well conserved between species and phyla with an overall 97% sequence identity shared between different species of mammals. Research indicates that UDP-GlcDH expression is upregulated by TGF α and downregulated by hypoxia.

Function: Involved in the biosynthesis of glycosaminoglycans; hyaluronan, chondroitin sulfate, and heparan sulfate.

Subunit Structure: Homohexamer.

Similarity: Belongs to the UDP-glucose/GDP-mannose dehydrogenase family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	296040443
NCBI GeneID	7358
NCBI Accession #	NP_001171629.1
NCBI GenBank Nucleotide #	NM_001184700.1
UniProt Accession #	O60701; O60589; B3KUU2; B4DN25
Molecular Weight	Observed: 55 kDa Predicted: 56 kDa
NCBI Official Full Name	UDP-glucose 6-dehydrogenase isoform 2
NCBI Official Synonym Full Names	UDP-glucose 6-dehydrogenase
NCBI Official Symbol	UGDH
NCBI Official Synonym Symbols	GDH; UGD; UDPGDH; UDP-GlcDH
NCBI Protein Information	UDP-glucose 6-dehydrogenase
UniProt Protein Name	UDP-glucose 6-dehydrogenase
UniProt Gene Name	UGDH
UniProt Synonym Gene Names	UDP-Glc dehydrogenase; UDP-GlcDH; UDPGDH

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ugdh-antibody-immunohistochemistry-western-blot-elisa/326118>