

Product datasheet for **TA326998S**

UDP glucose dehydrogenase (UGDH) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB 1:500 - 1:2000
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant protein of human UGDH
Formulation:	Store at -20C or -80C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	UDP-glucose 6-dehydrogenase
Database Link:	NP_003350 Entrez Gene 22235 Mouse Entrez Gene 7358 Human O60701



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Background:

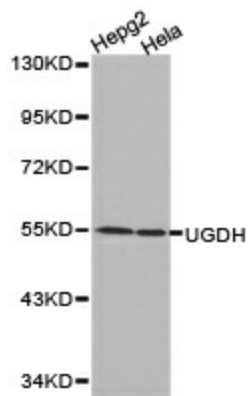
UDP-GlcDH (also called UDP-glucose 6-dehydrogenase, UGDH or UDPGDH) is a member of the UDP-glucose/GDP-mannose dehydrogenase family. UDP-GlcDH converts UDP-glucose to UDP-glucuronic acid, which is a crucial component in the biosynthesis of the glycosaminoglycans, hyaluronan, heparan sulfate and chondroitin 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 β and downregulated by hypoxia.

Synonyms:

GDH; UDP-GlcDH; UDPGDH; UGD

Protein Pathways:

Amino sugar and nucleotide sugar metabolism, Ascorbate and aldarate metabolism, Metabolic pathways, Pentose and glucuronate interconversions, Starch and sucrose metabolism

Product images:

Western blot analysis of HepG2 cell and HeLa cell lysate using UGDH antibody.