Product Name: UDP-GlcDH Rabbit Polyclonal Antibody
Catalog #: APRab19604

Summary

Production Name	UDP-GlcDH Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	UGDH
Alternative Names	UGDH; UDP-glucose 6-dehydrogenase; UDP-Glc dehydrogenase; UDP-GlcDH; UDPGDH
Gene ID	7358.0
SwissProt ID	O60701.The antiserum was produced against synthesized peptide derived from human UGDH. AA range:391-440

Application

Dilution Ratio	WB 1:500-1:2000. ELISA: 1:10000.
Molecular Weight	55kD

Background

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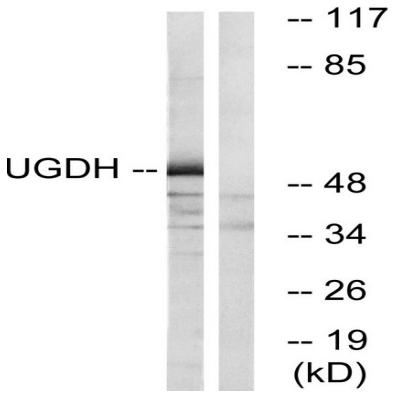
The protein encoded by this gene converts UDP-glucose to UDP-glucuronate and thereby participates in the biosynthesis of glycosaminoglycans such as hyaluronan, chondroitin sulfate, and heparan sulfate. These glycosylated compounds are common components of the extracellular matrix and likely play roles 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.[provided by RefSeq, May 2010],catalytic activity:UDP-glucose + 2 NAD(+) + H(2)O = UDP-glucuronate + 2 NADH.,function:Involved in the biosynthesis of glycosaminoglycans; hyaluronan, chondroitin sulfate, and heparan sulfate.,pathway:Nucleotide-sugar biosynthesis; UDP-glucuronic acid biosynthesis; UDP-glucuronic acid from UDP-glucose: step 1/1.,similarity:Belongs to the UDP-glucose/GDP-mannose dehydrogenase family.,subunit:Homohexamer.,

Research Area

Pentose and glucuronate interconversions;Ascorbate and aldarate metabolism;Starch and sucrose metabolism;Amino sugar and nucleotide sugar metabolism;

Image Data



Western blot analysis of lysates from COLO cells, using UGDH Antibody. The lane on the right is blocked with the synthesized peptide.

Note

For research use only.