

UDP-GlcDH Polyclonal Antibody

Catalog No: YT4816

Reactivity: Human; Mouse; Rat

Applications: WB;IHC;IF;ELISA

Target: UDP-GlcDH

Fields: >>Pentose and glucuronate interconversions;>>Ascorbate and aldarate

metabolism;>>Amino sugar and nucleotide sugar metabolism;>>Metabolic pathways;>>Biosynthesis of cofactors;>>Biosynthesis of nucleotide sugars

Gene Name: UGDH

Protein Name: UDP-glucose 6-dehydrogenase

O60701

O70475

Human Gene Id: 7358

Human Swiss Prot

No:

Mouse Gene ld: 22235

Mouse Swiss Prot

No:

Rat Gene Id: 83472

Rat Swiss Prot No: 070199

Immunogen: The antiserum was produced against synthesized peptide derived from human

UGDH. AA range:391-440

Specificity: UDP-GlcDH Polyclonal Antibody detects endogenous levels of UDP-GlcDH

protein.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, lgG

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Dilution: WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000.. IF 1:50-200

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 55kD

Cell Pathway: Pentose and glucuronate interconversions; Ascorbate and aldarate

metabolism;Starch and sucrose metabolism;Amino sugar and nucleotide sugar

metabolism;

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.[provided by RefSeg, May 2010],

Function: 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.,

Subcellular Location:

nucleus, nucleoplasm, cytosol, extracellular exosome,

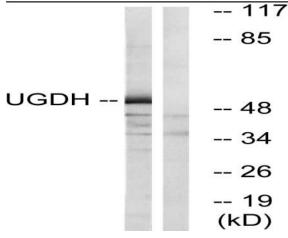
Expression : Detected in heart, placenta, liver, pancreas, spleen, thymus, prostate, ovary,

small intestine and colon (PubMed:9737970). Widely expressed

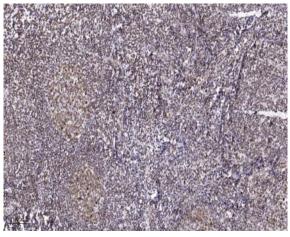
(PubMed:9737970).

Products Images

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



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).