

Rabbit anti-Human UGDH Polyclonal Antibody | anti-UGDH antibody

Anti-UGDH Antibody, Rabbit Polyclonal

CATALOG # AAA256040	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunoprecipitation, Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

UGDH; Polyclonal Antibody; Anti-UGDH Antibody; Rabbit Polyclonal; UGDH Antibody; Rabbit PAb; Antigen Affinity Purified; UDP-glucose 6-dehydrogenase; Anti-GDH Antibody; Anti-UDP-GlcDH Antibody; Anti-UDPGDH Antibody; Anti-UGD Antibody; anti-UGDH antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human UGDH
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-UGDH antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived Human UGDH fragment
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with E Coli-derived Human UGDH fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

IMAGES



IP (Immunoprecipitation)

UGDH was immunoprecipitated using: Lane A: 0.5 mg HeLa Whole Cell Lysate, 4 µL anti-UGDH rabbit polyclonal antibody and 60 µg of Immunomagnetic beads Protein A/G. Primary antibody: Anti-UGDH rabbit polyclonal antibody, at 1:100 dilution. Secondary antibody: Clean-Blot IP Detection Reagent (HRP) at 1:1000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 55 kDa. Observed band size: 57 kDa.



IHC (Immunohistochemistry)

Immunochemical staining of human UGDH in human prostate with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)

Immunochemical staining of human UGDH in human liver with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.



WB (Western Blot)

Anti-UGDH rabbit polyclonal antibody at 1:500 dilution Lane A: HeLa Whole Cell Lysate Lane B: Jurkat Whole Cell Lysate Lane C: NIH/3T3 Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 55 kDa Observed band size: 57 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-UGDH antibody

UDP-glucose 6-dehydrogenase (UGDH) is a key enzyme in the uronic acid pathway. UGDH encodes an oxidoreductase that catalyzes the NAD⁺-dependent four-electron oxidation of UDP-glucose to UDP-glucuronic acid, a key component in the synthesis of several polysaccharides such as glycosaminoglycan and the disaccharide hyaluronic acid. Glucuronate represents an integral component of the glycosaminoglycan, hyaluronan, which accumulates in orbital Graves disease. UGDH is critical to the production of extracellular matrix components which are essential to the migration and connectivity of neurons early in human brain development. UGDH produces UDP-alpha-D-glucuronic acid, the precursors for glycosaminoglycans (GAGs) and proteoglycans of the extracellular matrix. Elevated GAG formation has been implicated in a variety of human diseases, including glioblastoma (GBM).

References

Tsui S, et al. (2011) Divergent sp1 protein levels may underlie differential expression of udp-glucose dehydrogenase by fibroblasts: Role in susceptibility to orbital graves disease. J Biol Chem 286 (27): 24487-24499. Oyinlade O, et al. (2018) Targeting udp-alpha-d-glucose 6-dehydrogenase inhibits glioblastoma growth and migration. Oncogene 37 (20): 2615-2629. Chen J, et al. (2019) Catalytic mechanism of udp-glucose dehydrogenase. Biochem Soc Trans 47 (3): 945-955. Alhamoudi KM, et al. (2020) A missense mutation in the ugdh gene is associated with developmental delay and axial hypotonia. Front Pediatr 8 71.

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-immunoprecipitation-immunohistochemistry-western-blot-elisa/256040>