

For Research Use Only

UGDH Monoclonal antibody

Catalog Number: 67360-1-Ig

Featured Product

1 Publications



Basic Information

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| Catalog Number: 67360-1-Ig | GenBank Accession Number: BC022781 | Purification Method: Protein G purification |
| Size: 150ul, Concentration: 1200 µg/ml by Nanodrop and 500 µg/ml by Bradford method using BSA as the standard; | GeneID (NCBI): 7358 | CloneNo.: 1E2E1 |
| Source: Mouse | Full Name: UDP-glucose dehydrogenase | Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000 IF 1:200-1:800 |
| Isotype: IgG1 | Calculated MW: 494 aa, 55 kDa | |
| Immunogen Catalog Number: AG29747 | Observed MW: 55-60 kDa | |

Applications

Tested Applications:

IF, IHC, WB, ELISA

Cited Applications:

WB

Species Specificity:

Human, Mouse, Rat, pig

Cited Species:

human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : A431 cells, rat brain tissue, HeLa cells, HepG2 cells, HSC-T6 cells

IHC : human liver cancer tissue,

IF : HepG2 cells,

Background Information

UDP-glucose 6-dehydrogenase (UGDH) is a key enzyme in the uronic acid pathway, and converts UDP-glucose (UDP-Glc) to UDP-glucuronic acid (UDP-GlcA). 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. UDP-GlcA is an essential sugar nucleotide precursor and a key component in the synthesis and stepwise degradation of glycosaminoglycans (GAGs). The protein subunit migrates on SDS-PAGE at ~55 kDa. (PMID: 32175296, PMID: 21576248, PMID: 31243371).

Notable Publications

| Author | Pubmed ID | Journal | Application |
|---------|-----------|----------------------------|-------------|
| Bao Guo | 35617808 | Biochem Biophys Res Commun | WB |

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

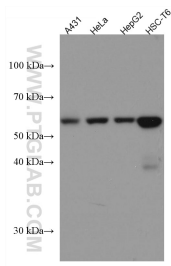
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

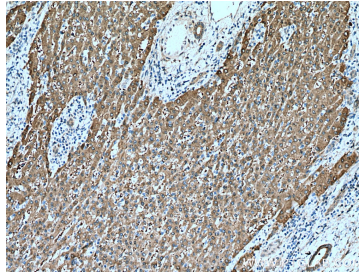
E: proteintech@ptglab.com
W: ptglab.com

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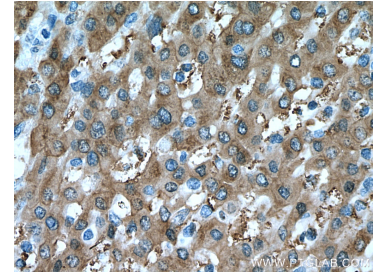
Selected Validation Data



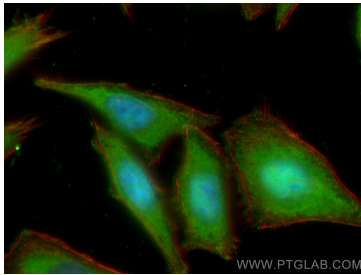
Various lysates were subjected to SDS PAGE followed by western blot with 67360-1-Ig (UGDH antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 67360-1-Ig (UGDH antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 67360-1-Ig (UGDH antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using UGDH antibody (67360-1-Ig, Clone: 1E2E1) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).