

For Research Use Only

# UGT8 Polyclonal antibody

Catalog Number: 17982-1-AP

Featured Product

12 Publications



## Basic Information

### Catalog Number:

17982-1-AP

### Size:

150ul, Concentration: 500 ug/ml by Nanodrop and 320 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG12393

### GenBank Accession Number:

BC075069

### GeneID (NCBI):

7368

### UNIPROT ID:

Q16880

### Full Name:

UDP glycosyltransferase 8

### Calculated MW:

541 aa, 61 kDa

### Observed MW:

61 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

## Applications

### Tested Applications:

WB, IHC, IP, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat

**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 : rat brain tissue,

IP : rat brain tissue,

IHC : human brain tissue, human breast cancer tissue

## Background Information

UGT8, also known as galactosylceramide synthase or CGT (ceramide galactosyltransferase), is a key enzyme for galactosylceramide (GalCer) biosynthesis. It is an ER transmembrane protein and has limited tissue distribution, with predominance in Schwann cells, oligodendrocytes, kidneys, testes, and intestine. UGT8 is highly enriched in myelin in the central nervous system. Its expression levels are strongly associated with histological typing in human oligodendrogliomas and astrocytomas; can be used as molecular marker to distinguish these tumors. Higher UGT8 levels had also been linked to metastatic properties of cancer cells. This antibody specifically recognizes the endogenous UGT8.

## Notable Publications

| Author           | Pubmed ID | Journal             | Application |
|------------------|-----------|---------------------|-------------|
| Michael R Heaven | 34808356  | Mol Cell Proteomics | WB,IHC      |
| Qianhua Cao      | 29728441  | J Exp Med           | WB,IF       |
| Sierra M. Webb   | 36034166  | Addict Neurosci     | 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

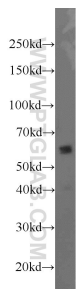
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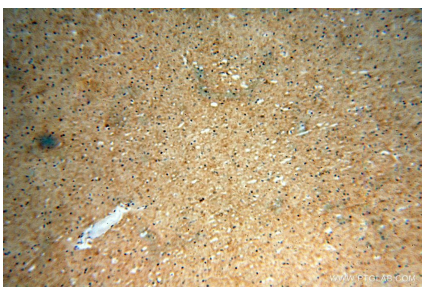
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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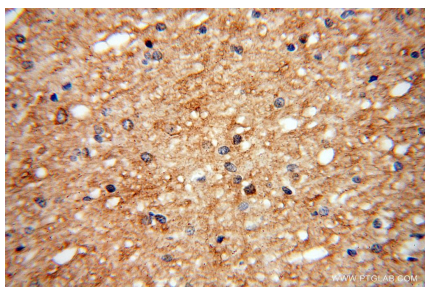
Selected Validation Data



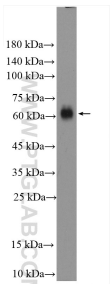
rat brain tissue were subjected to SDS PAGE followed by western blot with 17982-1-AP (UGT8 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



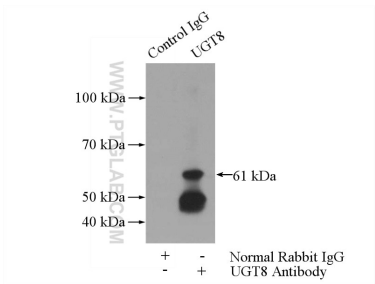
Immunohistochemical analysis of paraffin-embedded human brain using 17982-1-AP (UGT8 antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human brain using 17982-1-AP (UGT8 antibody) at dilution of 1:100 (under 40x lens).



rat brain tissue were subjected to SDS PAGE followed by western blot with 17982-1-AP (UGT8 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



IP result of anti-UGT8 (IP:17982-1-AP, 4ug; Detection:17982-1-AP 1:1000) with rat brain tissue lysate 4000ug.