

For Research Use Only

UGT8 Polyclonal antibody

Catalog Number: 17982-1-AP

Featured Product

9 Publications



Basic Information

Catalog Number:

17982-1-AP

Size:

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

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG12393

GenBank Accession Number:

BC075069

GeneID (NCBI):

7368

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 µg for IP and 1:500-1:2000

for WB

IHC 1:20-1:200

Applications

Tested Applications:

IHC, IP, WB, ELISA

Cited Applications:

IF, IHC, WB

Species Specificity:

human, mouse, rat

Cited Species:

human, rat, mouse

Positive Controls:

WB: rat brain tissue, mouse brain tissue, mouse cerebellum tissue

IP: rat brain tissue,

IHC: human brain tissue, human breast cancer tissue

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

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

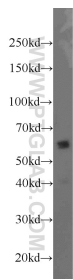
For technical support and original validation data for this product please contact:

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

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

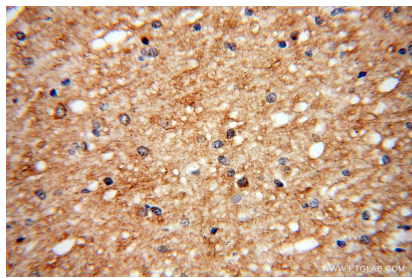
Selected Validation Data



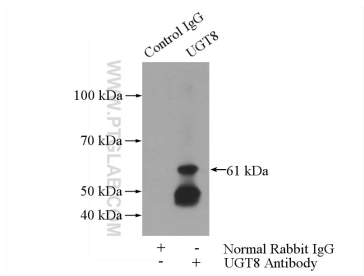
rat brain tissue were subjected to SDS PAGE followed by western blot with 17982-1-AP (UGT8 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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).



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