

For Research Use Only

# NAGS Polyclonal antibody

Catalog Number: 21566-1-AP

2 Publications



## Basic Information

### Catalog Number:

21566-1-AP

### Size:

500 µg/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG16073

### GenBank Accession Number:

BC111713

### GeneID (NCBI):

162417

### UNIPROT ID:

Q8N159

### Full Name:

N-acetylglutamate synthase

### Calculated MW:

534 aa, 58 kDa

### Observed MW:

58-66 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:6000

IHC 1:20-1:200

IF/ICC 1:10-1:100

## Applications

### Tested Applications:

WB, IF/ICC, IHC, ELISA

### Cited Applications:

WB, IHC

### Species Specificity:

human, mouse, rat

### 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** : mouse liver tissue, Jurkat cells, HepG2 cells, L02 cells, rat liver tissue

**IHC** : human liver tissue, human small intestine tissue

**IF/ICC** : HepG2 cells, Hela cells

## Background Information

N-acetylglutamate synthase, also known as NAGS, is a mitochondrial enzyme that catalyzes the formation of N-acetylglutamate (NAG) from glutamate and acetyl coenzyme-A. NAGS is the key enzyme for regulating the hepatic urea cycle and is also highly expressed in the kidney and gut. Deficiency of NAGS leads to hyperammonemia due to decreased activity of CPS1 deprived of its cofactor NAG (PMID:12459178,12754705).

## Notable Publications

Author	Pubmed ID	Journal	Application
Wenxiang Zhang	32029232	Mol Metab	WB
Bingyu Wang	38707433	Heliyon	WB,IHC

## 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

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

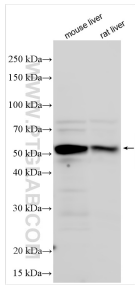
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

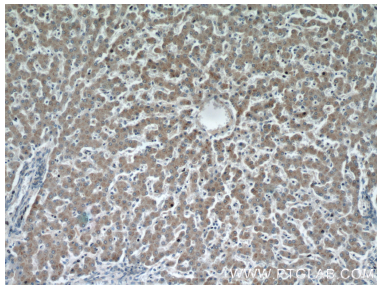
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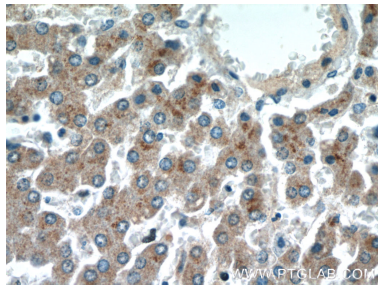
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 21566-1-AP (NAGS antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



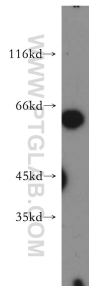
Immunohistochemical analysis of paraffin-embedded human liver using 21566-1-AP (NAGS antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver using 21566-1-AP (NAGS antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of HepG2 cells, using NAGS antibody 21566-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



HepG2 cells were subjected to SDS PAGE followed by western blot with 21566-1-AP (NAGS antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.