

For Research Use Only

NAGS Polyclonal antibody

Catalog Number: 21566-1-AP

2 Publications



Basic Information

Catalog Number:

21566-1-AP

Size:

150ul, Concentration: 133 ug/ml by Bradford method using BSA as the standard;

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, IHC, IF/ICC, 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 CPSI 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

*** 20ul sizes contain 0.1% BSA

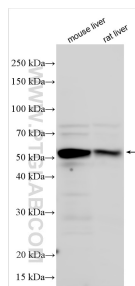
For technical support and original validation data for this product please contact:

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

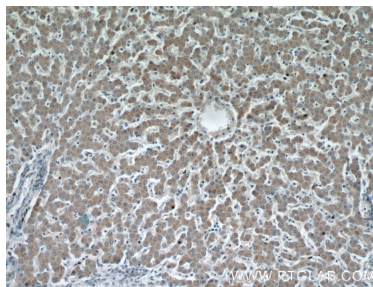
E: proteintech@ptglab.com
W: ptglab.com

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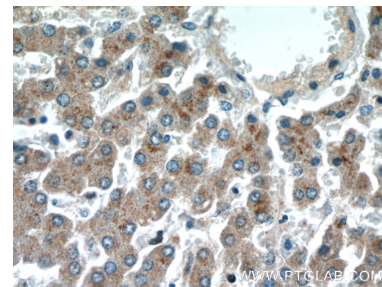
Selected Validation Data



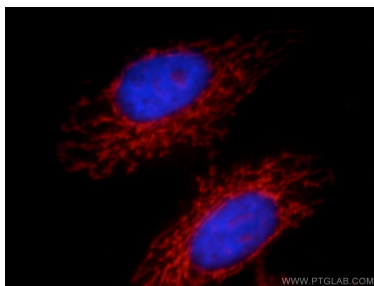
Various lysates were subjected to SDS PAGE followed by western blot with 21566-1-AP (NAGS antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



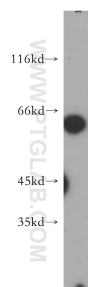
Immunohistochemical analysis of paraffin-embedded human liver using 21566-1-AP (NAGS antibody) at dilution of 1:50 (under 10x lens).



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.