

For Research Use Only

# CoraLite® Plus 750-conjugated NAGS Recombinant antibody

Catalog Number:CL750-82963



## Basic Information

Catalog Number:

CL750-82963

Size:

1000 ug/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 kDa

Purification Method:

Protein A purification

CloneNo.:

230279D3

Recommended Dilutions:

WB 1:500-1:1000

Excitation/Emission maxima  
wavelengths:

755 nm / 780 nm

## Applications

Tested Applications:

WB, FC (Intra)

Species Specificity:

human, mouse, rat

Positive Controls:

WB : rat liver tissue, mouse liver

## 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).

## Storage

Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

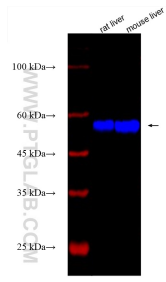
T: 4006900926

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

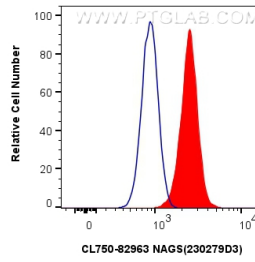
W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with CL750-82963 (NAGS antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



$1 \times 10^6$  HepG2 cells were intracellularly stained with 0.4  $\mu$ g CoraLite® Plus 750-conjugated NAGS Recombinant antibody (CL750-82963, Clone:230279D3)(red), or 0.4  $\mu$ g Isotype Control (CL750-30000) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).