

For Research Use Only

# CoraLite® Plus 750-conjugated NAGS Recombinant antibody

Catalog Number:CL750-82963



## Basic Information

### Catalog Number:

CL750-82963

### Size:

100ul , Concentration: 1000 ug/ml by  
Nanodrop;

### 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 CPSI 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

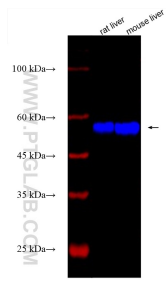
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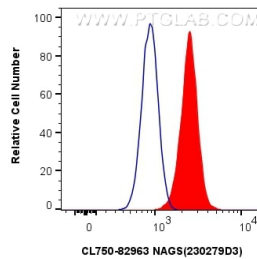
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## Selected Validation Data



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).