

NAGS Recombinant antibody

Catalog Number: 82963-1-RR

Basic Information

Catalog Number:

82963-1-RR

Size:

1000 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 kDa

Purification Method:

Protein A purification

CloneNo.:

230279D3

Recommended Dilutions:

WB 1:2000-1:10000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

Human, mouse, rat

Positive Controls:

WB : HepG2 cells, mouse liver tissue, rat liver tissue

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:

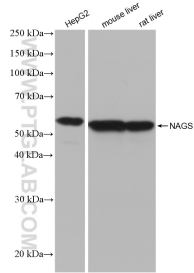
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

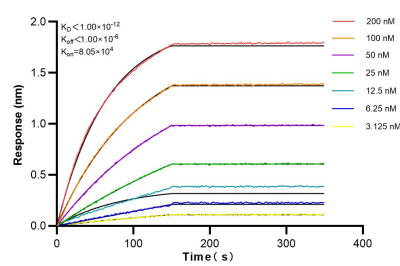
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 82963-1-RR (NAGS antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 82963-1-RR against Human NAGS were performed. The affinity constant is below 1 pM.