

GNS Antibody (Center S298)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6574b

Specification

GNS Antibody (Center S298) - Product Information

Application FC, IHC-P, WB,E

Primary Accession
Reactivity
Host
Clonality
Rabbit
Polyclonal
Isotype
Calculated MW
Antigen Region
P15586
Human
Rabbit
Clonality
Polyclonal
Rabbit IgG
C2082
Antigen Region
P15586
Human
Rabbit
Polyclonal
Rabbit IgG
C2082

GNS Antibody (Center S298) - Additional Information

Gene ID 2799

Other Names

N-acetylglucosamine-6-sulfatase, Glucosamine-6-sulfatase, G6S, GNS

Target/Specificity

This GNS antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 283-313 amino acids from the Central region of human GNS.

Dilution

FC~~1:10~50 IHC-P~~1:50~100 WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

GNS Antibody (Center S298) is for research use only and not for use in diagnostic or therapeutic procedures.

GNS Antibody (Center S298) - Protein Information

Name GNS



Function Hydrolyzes 6-sulfate groups in N-acetyl-d-glucosaminide units of heparin sulfate and keratan sulfate.

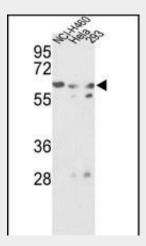
Cellular Location Lysosome.

GNS Antibody (Center S298) - Protocols

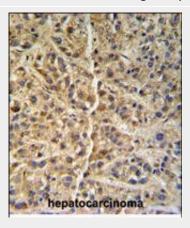
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

GNS Antibody (Center S298) - Images



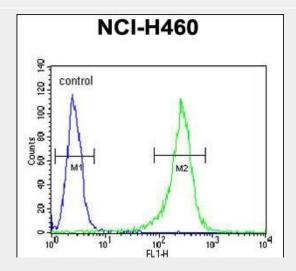
Western blot analysis of GNS Antibody (Center S298) (Cat. #AP6574b) in NCI-H460, Hela, 293 cell line lysates (35ug/lane). GNS (arrow) was detected using the purified Pab.



GNS Antibody (Center S298) (Cat. #AP6574b) IHC analysis in formalin fixed and paraffin embedded human hepatocarcinoma followed by peroxidase conjugation of the secondary



antibody and DAB staining. This data demonstrates the use of the GNS Antibody (Center S298) for immunohistochemistry. Clinical relevance has not been evaluated.



GNS Antibody (Center S298) (Cat. #AP6574b) flow cytometric analysis of NCI-H460 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

GNS Antibody (Center S298) - Background

GNS is a lysosomal enzyme found in all cells. It is involved in the catabolism of heparin, heparan sulphate, and keratan sulphate. Deficiency of this enzyme results in the accumulation of undegraded substrate and the lysosomal storage disorder mucopolysaccharidosis type IIID (Sanfilippo D syndrome). Mucopolysaccharidosis type IIID is the least common of the four subtypes of Sanfilippo syndrome.

GNS Antibody (Center S298) - References

Zhang, H., Li, X.J., Nat. Biotechnol. 21 (6), 660-666 (2003)