

GNS Antibody (Center N189)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP6574c

Specification

GNS Antibody (Center N189) - Product Information

Application WB, IHC-P,E Primary Accession P15586

Other Accession <u>Q8BFR4</u>, <u>Q1LZH9</u>

Reactivity Human

Predicted Bovine, Mouse

Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Calculated MW 62082
Antigen Region 174-203

GNS Antibody (Center N189) - 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 174-203 amino acids from the Central region of human GNS.

Dilution

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

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 N189) is for research use only and not for use in diagnostic or therapeutic procedures.

GNS Antibody (Center N189) - Protein Information

Name GNS



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

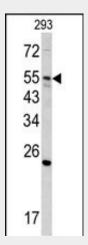
Cellular Location Lysosome.

GNS Antibody (Center N189) - Protocols

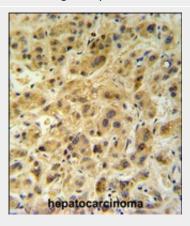
Provided below are standard protocols that you may find useful for product applications.

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

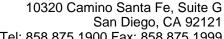
GNS Antibody (Center N189) - Images



Western blot analysis of GNS antibody (Center N189) (Cat. #AP6574c) in 293 cell line lysates (35ug/lane). GNS (arrow) was detected using the purified Pab.



GNS Antibody (Center N189) (Cat. #AP6574c) IHC analysis in formalin fixed and paraffin embedded human hepatocarcinoma followed by peroxidase conjugation of the secondary





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antibody and DAB staining. This data demonstrates the use of the GNS Antibody (Center N189) for immunohistochemistry. Clinical relevance has not been evaluated.

GNS Antibody (Center N189) - 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 N189) - References

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