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GNS Antibody (Center S298)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6574b

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	P15586
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB19341
Calculated MW	62082
Antigen Region	283-313

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	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 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.

Protein Information

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

Cellular Location Lysosome.

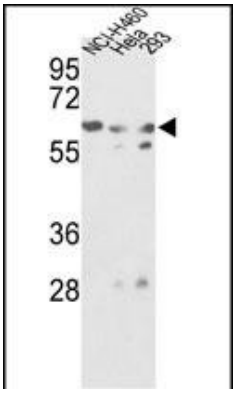
Background

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.

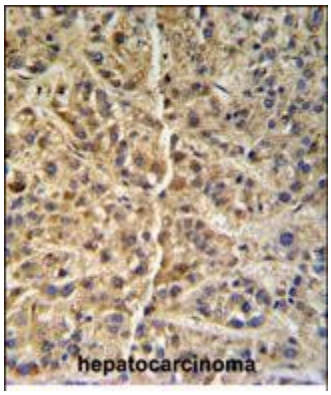
References

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

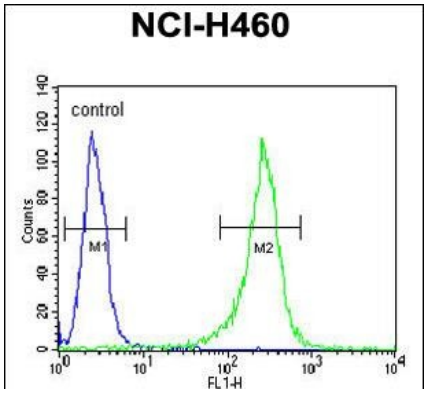
Images



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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.