

Rabbit GNS Polyclonal Antibody | anti-GNS antibody

Anti-GNS Picoband antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA124609	Rabbit	Human, Mouse, Rat No cross reactivity with other proteins.	Western Blot, ELISA

PRODUCT SYNONYMS

GNS; Polyclonal Antibody; Anti-GNS Picoband antibody; N-acetylglucosamine-6-sulfatase; Glucosamine-6-sulfatase; G6S; anti-GNS antibody

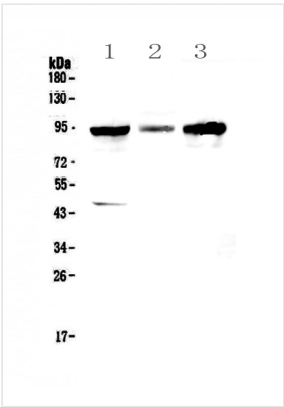
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat No cross reactivity with other proteins.
Clonality	Polyclonal
Form/Format	Lyophilized
Sequence Length	532
Applicable Applications for anti-GNS antibody	WB (Western Blot), ELISA
Immunogen	E Coli-derived human GNS recombinant protein (Position: W238-R355).
Subcellular Localization	Lysosome.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



WB (Western Blot)

Figure 2. Western blot analysis of GNS using anti-GNS antibody (AAA124609).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: rat lung tissue lysates,Lane 2: rat kidney tissue lysates,Lane 3: rat testis tissue lysates,Lane 4: rat PC-12 whole cell lysates,Lane 5: mouse lung tissue lysates,Lane 6: mouse kidney tissue lysates,Lane 7: mouse testis tissue lysates,Lane 8: mouse spleen tissue lysates,Lane 9: mouse thymus tissue lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-GNS antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for GNS at approximately 90KD. The expected band size for GNS is at 62KD.



WB (Western Blot)

Figure 1. Western blot analysis of GNS using anti-GNS antibody (AAA124609).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: human HepG2 whole cell lysates,Lane 2: human PANC-1 whole cell lysates,Lane 3: human SGC-7901 whole cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-GNS antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for GNS at approximately 90KD. The expected band size for GNS is at 62KD.

ADDITIONAL INFORMATION

Related Product Information for anti-GNS antibody	N-acetylglucosamine-6-sulfatase, also known as glucosamine (N-acetyl)-6-sulfatase, is an enzyme that in humans is encoded by the GNS gene. The product of this gene 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4504061
NCBI GeneID	2799
NCBI Accession #	NP_002067.1
NCBI GenBank Nucleotide #	NM_002076.3
UniProt Accession #	P15586; Q53F05; B4DYH8
Molecular Weight	59,989 Da
NCBI Official Full Name	N-acetylglucosamine-6-sulfatase
NCBI Official Synonym Full Names	glucosamine (N-acetyl)-6-sulfatase
NCBI Official Symbol	GNS
NCBI Official Synonym Symbols	G6S
NCBI Protein Information	N-acetylglucosamine-6-sulfatase
UniProt Protein Name	N-acetylglucosamine-6-sulfatase
UniProt Gene Name	GNS

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/gns-antibody-western-blot-elisa/124609>