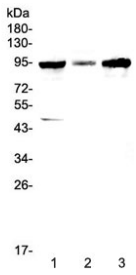
GNS Antibody / Glucosamine (N-acetyl)-6-sulfatase (RQ4270)

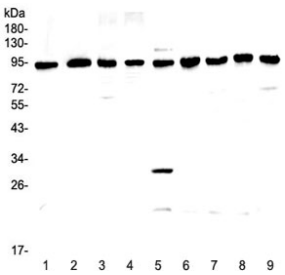
Catalog No.	Formulation	Size
RQ4270	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P15586
Localization	Lysosome
Applications	Western Blot : 0.5-1ug/ml Direct ELISA : 0.1-0.5ug/ml
Limitations	This GNS antibody is available for research use only.



Western blot testing of human 1) HepG2, 2) PANC-1 and 3) SGC-7901 cell lysate with GNS antibody at 0.5ug/ml. Predicted molecular weight ~62 kDa, can be observed at ~94 kDa.



Western blot testing of rat 1) lung, 2) kidney, 3) testis, 4) PC-12 lysate and mouse 5) lung, 6) kidney, 7) testis, 8) spleen and 9) thymus lysate with GNS antibody at 0.5ug/ml. Predicted molecular weight ~62 kDa, can be observed at ~94 kDa.

Description

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.

Application Notes

Optimal dilution of the GNS antibody should be determined by the researcher.

Immunogen

A recombinant human protein corresponding to amino acids W238-R355 was used as the immunogen for the GNS antibody.

Storage

After reconstitution, the GNS antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.