Data Sheet (Cat.No.TMAY-00605)

TargetMol

Anti-GNS Antibody (8V673)

Product Details

Ig Type:	Mouse IgG2b
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	8V673
Purification:	Protein A

Applications

Application:	ELISA
Recommended	ELISA: 1:1000-1:2000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Human cell-derived rhGNS
Antigen Species:	Human
Synonyms:	G6S;Glucosamine-6-Sulfatase;N-Acetylglucosamine-6-Sulfatase;GNS

Research Background

Glucosamine (N-acetyl)-6-sulfatase (GNS), also known as G6S, a hydrolase, which is one of the enzymes involved in heparan sulfate catabolism leading to lysosomal storage. GNS is required for the catabolism of the glycosaminoglycans (GAG) including heparin, heparan sulfate, and keratan sulfate through the hydrolysis of the 6-sulfate group from the N-acetyl-D-glucosamine 6-sulfate units. Mucopolysaccharidosis type IIID (MPS IIID) is the least common of the four subtypes of Sanfilippo syndrome. It is caused by a deficiency of N-acetylglucosamine-6-sulphatase. A mutation in GNS resulting in MPS IIID indicates the potential utility of molecular diagnosis for this rare condition. As the least common type of the four subtypes of Sanfilippo syndrome, MPS IIID has profound mental deterioration, hyperactivity, and relatively mild somatic manifestations.

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