Data Sheet (Cat.No.TMAY-00606)

TargetMol

Anti-GNS Antibody (8J37)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	8J37
Purification:	Protein A

Applications

Verified Activity:	Anti-GNS rabbit monoclonal antibody at 1:500 dilution. -Lane A: PC3 Whole Cell lysate. -Lysates/proteins at 30 µg per lane. -Secondary -Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution. -Developed using the Odyssey technique. -Performed under reducing conditions. -Predicted band size:62 kDa. -Observed band size:95 kDa
Application:	ELISA,WB
Recommended	WB: 1:500-1:2000; ELISA: 1:5000-1:10000

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:	Recombinant Protein: Human GNS protein
Antigen Species:	Human
Synonyms:	Glucosamine-6-Sulfatase;G6S;GNS;N-Acetylglucosamine-6-Sulfatase

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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