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Datasheet for ABIN1708272  
**anti-GNS antibody (AA 1-100) (Cy7)**

### Overview

Quantity:	100 µL
Target:	GNS
Binding Specificity:	AA 1-100
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GNS antibody is conjugated to Cy7
Application:	Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

### Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human GNS/Glucosamine 6 sulfatase
Isotype:	IgG
Predicted Reactivity:	Human,Mouse,Rat,Cow,Horse,Rabbit
Purification:	Purified by Protein A.

### Target Details

Target:	GNS
Alternative Name:	Glucosamine 6 sulfatase ( <a href="#">GNS Products</a> )
Background:	Synonyms: 2610016K11Rik, AU042285, C87209, G6S, Glucosamine N-acetyl 6 sulfatase,

## Target Details

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Glucosamine 6 sulfatase, Glucosamine-6-sulfatase, GNS, GNS\_HUMAN, MGC21274, N-acetylglucosamine 6 sulfatase [Precursor], N-acetylglucosamine-6-sulfatase, N28088.

Background: GNS is a 552 amino acid lysosomal enzyme that hydrolyzes the 6-sulfate groups of the N-acetyl-D-glucosamine 6-sulfate units of keratan sulfate and heparan sulfate. A member of the sulfatase family, GNS assists in the catabolism of heparin, and binds calcium as a cofactor. GNS deficiency results in an autosomal recessive lysosomal storage disorder known as mucopolysaccharidosis type IIID (Sanfilippo D syndrome), which is characterized by mild somatic disease and severe degeneration of the central nervous system. Subject to post-translational internal peptidase cleavage, GNS is encoded by a gene mapping to human chromosome 12q14.2 and mouse chromosome 10 D2.

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Gene ID: 2799

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Pathways: [Glycosaminoglycan Metabolic Process](#)

## Application Details

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Application Notes: IF(IHC-P) 1:50-200  
IF(IHC-F) 1:50-200  
IF(ICC) 1:50-200

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Concentration: 1 µg/µL

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Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

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Preservative: ProClin

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Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

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Storage: -20 °C

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Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

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Expiry Date: 12 months