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NAGLU Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant NAGLU.
Catalog # AT2970a

Product Information

Application	WB
Primary Accession	P54802
Other Accession	NM_000263
Reactivity	Human, Mouse
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	1B7
Calculated MW	82266

Additional Information

Gene ID	4669
Other Names	Alpha-N-acetylglucosaminidase, N-acetyl-alpha-glucosaminidase, NAG, Alpha-N-acetylglucosaminidase 82 kDa form, Alpha-N-acetylglucosaminidase 77 kDa form, NAGLU, UFHSD1
Target/Specificity	NAGLU (NP_000254, 644 a.a. ~ 742 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	NAGLU Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

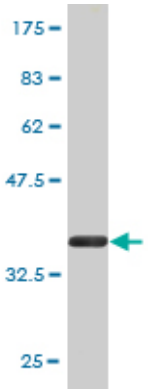
This gene encodes an enzyme that degrades heparan sulfate by hydrolysis of terminal N-acetyl-D-glucosamine residues in N-acetyl-alpha-D-glucosaminides. Defects in this gene are the cause of mucopolysaccharidosis type IIIB (MPS-IIIB), also known as Sanfilippo syndrome B. This disease is characterized by the lysosomal accumulation and urinary excretion of heparan sulfate.

References

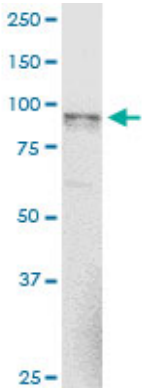
Identification and characterization of a novel homozygous deletion in the alpha-N-acetylglucosaminidase

gene in a patient with Sanfilippo type B syndrome (mucopolysaccharidosis IIIB). Champion KJ, et al. Mol Genet Metab, 2010 May. PMID 20138557.Molecular analysis of mucopolysaccharidosis type IIIB in Portugal: evidence of a single origin for a common mutation (R234C) in the Iberian Peninsula. Mangas M, et al. Clin Genet, 2008 Mar. PMID 18218046.Sanfilippo type B syndrome: five patients with an R565P homozygous mutation in the alpha-N-acetylglucosaminidase gene from the Okinawa islands in Japan. Chinen Y, et al. J Hum Genet, 2005. PMID 15933803.The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.Inferring nonneutral evolution from human-chimp-mouse orthologous gene trios. Clark AG, et al. Science, 2003 Dec 12. PMID 14671302.

Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.63 KDa) .



NAGLU monoclonal antibody (M02), clone 1B7. Western Blot analysis of NAGLU expression in NIH/3T3.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.