BT LAB
Bioassay Technology Laboratory

Optimize Your Research

GLCNE Polyclonal Antibody

Description

Product type	Primary Antibody
Code	BT-AP03579
Host	Rabbit
Isotype	IgG
Size	20ul, 50ul, 100ul
Immunogen	The antiserum was produced against synthesized peptide derived from human GNE. AA range:592-641
Mol wt	79275
Species reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Recommended application	WB, IHC-p, ELISA
Concentration	1 mg/ml
Full name	GLCNE Antibody
Synonyms	GNE; GLCNE; Bifunctional UDP-N-acetylglucosamine 2-epimerase/N-acetylmannosamine kinase; UDP-GlcNAc-2-epimerase/ManAc kinase

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

The glucosamine (UDP-N-acetyl)-2-epimerase/N-acetylmannosamine kinase encoded by GNE is a bifunctional enzyme that initiates and regulates the biosynthesis of N-acetylneuraminic acid (NeuAc), a precursor of sialic acids. It is a rate-limiting enzyme in the sialic acid biosynthetic pathway. Sialic acid modification of cell surface molecules is crucial for their function in many biologic processes, including cell adhesion and signal transduction. Differential sialylation of cell surface molecules is also implicated in the tumorigenicity and metastatic behavior of malignant cells. Mutations in this gene are associated with sialuria, autosomal recessive inclusion body myopathy, and Nonaka myopathy. Alternative splicing of this gene results in transcript variants encoding different isoforms.

Recommended Dilution

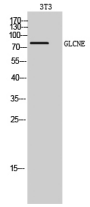
WB: 1: 500 - 1: 2000

IHC: 1: 100 - 1: 300

ELISA: 1: 5000

Not yet tested in other applications.

Images



Western Blot analysis of 3T3 cells using GLCNE Polyclonal Antibody diluted at 1:500

Storage

-20°C for one year

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