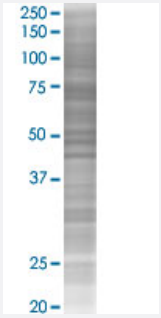
GNE 293T Cell Transient Overexpression Lysate(Denatured)

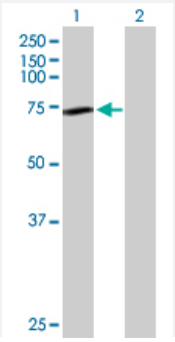
Catalog # H00010020-T01 Size 100 uL

Applications



SDS-PAGE Gel

GNE transfected lysate.



Western Blot

Lane 1: GNE transfected lysate (79.30 KDa)
Lane 2: Non-transfected lysate.

Specification

Transfected Cell Line	293T
Plasmid	pCMV-GNE full-length
Host	Human
Theoretical MW (kDa)	79.3
Interspecies Antigen Sequence	Mouse (98); Rat (98)

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Quality Control Testing	Transient overexpression cell lysate was tested with Anti-GNE antibody (H00010020-D01P) by Western Blots. SDS-PAGE Gel GNE transfected lysate. Western Blot Lane 1: GNE transfected lysate (79.30 KDa) Lane 2: Non-transfected lysate.
Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot

Gene Info — GNE

Entrez GeneID	10020
GeneBank Accession#	NM_005476.3
Protein Accession#	NP_005467.1
Gene Name	GNE
Gene Alias	DMRV, GLCNE, IBM2, NM, Uae1
Gene Description	glucosamine (UDP-N-acetyl)-2-epimerase/N-acetylmannosamine kinase
Omim ID	269921 600737 603824 605820
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene 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. [provided by RefSeq

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Other Designations	N-acylmannosamine kinase|OTTHUMP00000021370|UDP-N-acetylglucosamine 2-epimerase/N-acetylmannosamine kinase|UDP-N-acetylglucosamine-2-epimerase/N-acetylmannosamine kinase

Pathway

- Amino sugar and nucleotide sugar metabolism
- Metabolic pathways

Disease

- Myositis

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