

**GNE Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP12285a**

**Specification**

**GNE Antibody (N-term) - Product Information**

Application	<b>WB, IHC-P,E</b>
Primary Accession	<a href="#">Q9Y223</a>
Other Accession	<a href="#">O35826</a> , <a href="#">Q91WG8</a> , <a href="#">Q7TQ49</a> , <a href="#">NP_001121699.1</a> , <a href="#">NP_005467.1</a>
Reactivity	<b>Human</b>
Predicted	<b>Hamster, Mouse,</b> <b>Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit Ig</b>
Calculated MW	<b>79275</b>
Antigen Region	<b>169-197</b>

**GNE Antibody (N-term) - Additional Information**

**Gene ID** 10020

**Other Names**

Bifunctional UDP-N-acetylglucosamine 2-epimerase/N-acetylmannosamine kinase, UDP-GlcNAc-2-epimerase/ManAc kinase, UDP-N-acetylglucosamine 2-epimerase (hydrolyzing), UDP-GlcNAc-2-epimerase, Uridine diphosphate-N-acetylglucosamine-2-epimerase, N-acetylmannosamine kinase, ManAc kinase, GNE, GLCNE

**Target/Specificity**

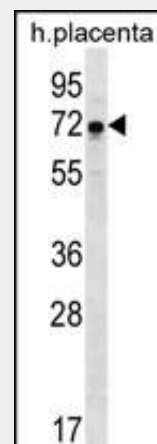
This GNE antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 169-197 amino acids from the N-terminal region of human GNE.

**Dilution**

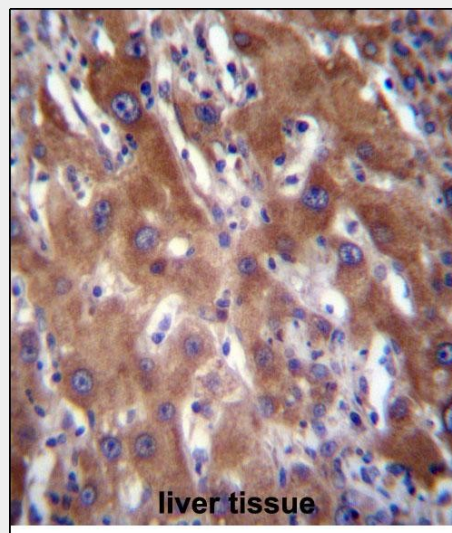
WB~~1:1000  
IHC-P~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.



GNE Antibody (N-term) (Cat. #AP12285a) western blot analysis in human placenta tissue lysates (35ug/lane). This demonstrates the GNE antibody detected the GNE protein (arrow).



GNE Antibody (N-term) (Cat. #AP12285a) immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of GNE Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

GNE Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**GNE Antibody (N-term) - Protein Information**

**Name** GNE

**Synonyms** GLCNE

**Function**

Regulates and initiates biosynthesis of N-acetylneuraminic acid (NeuAc), a precursor of sialic acids. Plays an essential role in early development (By similarity). Required for normal sialylation in hematopoietic cells. Sialylation is implicated in cell adhesion, signal transduction, tumorigenicity and metastatic behavior of malignant cells.

**Cellular Location**

Cytoplasm.

**Tissue Location**

Highest expression in liver and placenta. Also found in heart, brain, lung, kidney, skeletal muscle and pancreas. Isoform 1 is expressed in heart, brain, kidney, liver, placenta, lung, spleen, pancreas, skeletal muscle and colon. Isoform 2 is expressed mainly in placenta, but also in brain, kidney, liver, lung, pancreas and colon. Isoform 3 is expressed at low level in kidney, liver, placenta and colon.

**GNE Antibody (N-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)

**GNE Antibody (N-term) - Background**

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].

**GNE Antibody (N-term) - References**

Stober, A., et al. Neuromuscul. Disord. 20(5):335-336(2010)  
Reinke, S.O., et al. Glycoconj. J. 26(4):415-422(2009)  
Tong, Y., et al. PLoS ONE 4 (10), E7165 (2009) :  
Reinke, S.O., et al. FEBS Lett. 581(17):3327-3331(2007)  
Watts, G.D., et al. Neuromuscul. Disord. 13 (7-8), 559-567 (2003) :

- [Flow Cytometry](#)
- [Cell Culture](#)