

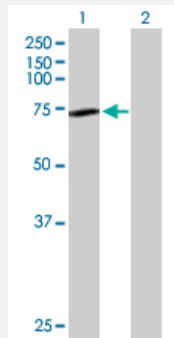
MaxPab®

# GNE purified MaxPab rabbit polyclonal antibody (D01P)

Catalog # H00010020-D01P

Size 100 ug

## Applications



### Western Blot (Transfected lysate)

Western Blot analysis of GNE expression in transfected 293T cell line ([H00010020-T01](#)) by GNE MaxPab polyclonal antibody.

Lane 1: GNE transfected lysate(79.30 kDa).

Lane 2: Non-transfected lysate.

## Specification

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Description           | Rabbit polyclonal antibody raised against a full-length human GNE protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Immunogen                     | GNE (NP_005467.1, 1 a.a. ~ 722 a.a) full-length human protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Sequence                      | MEKNGNNRKLRCVATCNRADYSKLAPIMFGIKTEPEFFELDVVVLGSHLIDDYGNTYRMIEQDDF<br>DINTRLHTVRGEDEAAMVESVGLALVKLPDVLNRLKPDIMVHGDRFDALALATSAALMNIRILHIEG<br>GEVSGTIDDSIRHAITKLAHYHVCCTRSAEQHLISMCEHDHRIILAGCPSYDKLLSAKNKDYSIIRM<br>WLGDDVKSVDYVALQHPVTTDIKHSIKMFELTDALISFNKRTLVLFPNIDAGSKEMVRVMRKKGI<br>EHHPNFRAVKHVPFDQFIQLVAHAGCMIGNSSCGVREVGAFGTPVINLGTRQIGRETGENVLHVR<br>DADTQDKILQALHLQFGKQYPCSKYGDGNAVPRILKFLKSIDLQEPLQKKFCFPPVKENISQDIDHI<br>LETLSALAVDLGGTNLRVAIVSMKGEIVKKYTFNPKTYEERINLILQMCVEAAAEAVKLNCRILGVG<br>ISTGGRVNPREGIVLHSTKLIQEWNSVDLRTPLSDTLHLPVWVDNDGNCAALAERKFGQGKGLN<br>FVTLITGTGIGGGIIHQHELIHGSSFCAAELGHLVVSLDGPDCSCGSHGCIEAYASGMALQREAKKL<br>HDEDLVVEGMSVPKDEAVGALHLIAAKLGNAAQSIILRTAGTALGLGVVNILHTMNPISLVILSGV<br>LASHYHVKDVIRQQALSSVQDVVDVVSDLVDPALLGAASMVLDTTTRRY |
| Host                          | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Reactivity                    | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Interspecies Antigen Sequence | Mouse (98); Rat (98)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

|                         |                                                                          |
|-------------------------|--------------------------------------------------------------------------|
| Quality Control Testing | Antibody reactive against mammalian transfected lysate.                  |
| Storage Buffer          | In 1x PBS, pH 7.4                                                        |
| Storage Instruction     | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |

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[Protocol Download](#)

## Gene Info — GNE

|               |                       |
|---------------|-----------------------|
| Entrez GeneID | <a href="#">10020</a> |
|---------------|-----------------------|

|                     |                             |
|---------------------|-----------------------------|
| GeneBank Accession# | <a href="#">NM_005476.3</a> |
|---------------------|-----------------------------|

|                    |                             |
|--------------------|-----------------------------|
| Protein Accession# | <a href="#">NP_005467.1</a> |
|--------------------|-----------------------------|

|           |     |
|-----------|-----|
| Gene Name | GNE |
|-----------|-----|

|            |                             |
|------------|-----------------------------|
| Gene Alias | DMRV, GLCNE, IBM2, NM, Uae1 |
|------------|-----------------------------|

|                  |                                                                   |
|------------------|-------------------------------------------------------------------|
| Gene Description | glucosamine (UDP-N-acetyl)-2-epimerase/N-acetylmannosamine kinase |
|------------------|-------------------------------------------------------------------|

|         |                                                                                             |
|---------|---------------------------------------------------------------------------------------------|
| Omim ID | <a href="#">269921</a> <a href="#">600737</a> <a href="#">603824</a> <a href="#">605820</a> |
|---------|---------------------------------------------------------------------------------------------|

|               |                           |
|---------------|---------------------------|
| Gene Ontology | <a href="#">Hyperlink</a> |
|---------------|---------------------------|

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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] |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                    |                                                                                                                                                                           |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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](#)