

GNPTG Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18233b**Specification**

GNPTG Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	O9UJJ9
Other Accession	NP_115909.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	33974
Antigen Region	266-296

GNPTG Antibody (C-term) - Additional Information**Gene ID** 84572**Other Names**

N-acetylglucosamine-1-phosphotransferase subunit gamma, GlcNAc-1-phosphotransferase subunit gamma, UDP-N-acetylglucosamine-1-phosphotransferase subunit gamma, GNPTG, C16orf27, GNPTAG

Target/Specificity

This GNPTG antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 266-296 amino acids from the C-terminal region of human GNPTG.

Dilution

WB~~1:1000

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.

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

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

GNPTG Antibody (C-term) - Protein Information**Name** GNPTG

Synonyms C16orf27, GNPTAG

Function Non-catalytic subunit of the N-acetylglucosamine-1-phosphotransferase complex, an enzyme that catalyzes the formation of mannose 6-phosphate (M6P) markers on high mannose type oligosaccharides in the Golgi apparatus. Binds and presents the high mannose glycans of the acceptor to the catalytic alpha and beta subunits (GNPTAB). Enhances the rate of N-acetylglucosamine-1-phosphate transfer to the oligosaccharides of acid hydrolase acceptors.

Cellular Location

Secreted. Golgi apparatus

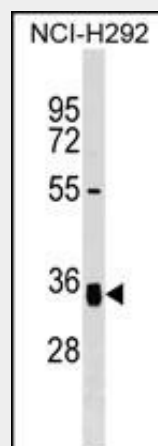
Tissue Location

Widely expressed..

GNPTG Antibody (C-term) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

GNPTG Antibody (C-term) - Images

GNPTG Antibody (C-term) (Cat. #AP18233b) western blot analysis in NCI-H292 cell line lysates (35ug/lane). This demonstrates the GNPTG antibody detected the GNPTG protein (arrow).

GNPTG Antibody (C-term) - Background

This gene encodes the gamma subunit of the N-acetylglucosamine-1-phosphotransferase complex. This hexameric complex, composed of alpha, beta and gamma subunits, catalyzes the first step in synthesis of a mannose 6-phosphate lysosomal recognition marker. This enzyme complex is necessary for targeting of lysosomal hydrolases to the lysosome. Mutations in the gene

encoding the gamma subunit have been associated with mucopolipidosis IIIC, also known as mucopolipidosis III gamma.

GNPTG Antibody (C-term) - References

Kang, C., et al. N. Engl. J. Med. 362(8):677-685(2010)
Qian, Y., et al. J. Biol. Chem. 285(5):3360-3370(2010)
Pohl, S., et al. Am. J. Med. Genet. A 152A (1), 124-132 (2010) :
Encarnacao, M., et al. Clin. Genet. 76(1):76-84(2009)
Persichetti, E., et al. Hum. Mutat. 30(6):978-984(2009)