

**GNPTG Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP18233b****Specification**

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**GNPTG Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [O9UJJ9](#)**GNPTG Antibody (C-term) Blocking Peptide - 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

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**GNPTG Antibody (C-term) Blocking Peptide - 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) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**GNPTG Antibody (C-term) Blocking Peptide - Images****GNPTG Antibody (C-term) Blocking Peptide - 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 mucopolysaccharidosis III C, also known as mucopolysaccharidosis III gamma.

**GNPTG Antibody (C-term) Blocking Peptide - 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)