

NPL Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP18910a**Specification**

NPL Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q9BXD5](#)**NPL Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 80896**Other Names**

N-acetylneuraminate lyase, NALase, N-acetylneuraminate pyruvate-lyase, N-acetylneuraminic acid aldolase, Sialate lyase, Sialate-pyruvate lyase, Sialic acid aldolase, Sialic acid lyase, NPL, C1orf13

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.

NPL Antibody (N-term) Blocking Peptide - Protein Information**Name** NPL ([HGNC:16781](#))**Synonyms** C1orf13**Function**

Catalyzes the cleavage of N-acetylneuraminic acid (sialic acid) to form pyruvate and N-acetylmannosamine via a Schiff base intermediate (PubMed:33895133). It prevents sialic acids from being recycled and returning to the cell surface (PubMed:33895133). Involved in the N-glycolylneuraminic acid (Neu5Gc) degradation pathway (PubMed:22692205, PubMed:33895133). Although human is not able to catalyze formation of Neu5Gc due to the inactive CMAHP enzyme, Neu5Gc is present in food and must be degraded (Probable).

Cellular Location

Cytoplasm.

Tissue Location

Isoform 2 is expressed in placenta, liver, kidney, pancreas, spleen, thymus, ovary, small intestine and peripheral blood leukocyte.

NPL Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

NPL Antibody (N-term) Blocking Peptide - Images

NPL Antibody (N-term) Blocking Peptide - Background

N-acetylneuraminate pyruvate lyase (EC 4.1.3.3) controls the cellular concentration of sialic acid by catalyzing the conversion of sialic acid into acylmannosamines and pyruvate (Wu et al., 2005 [PubMed 16147865]).

NPL Antibody (N-term) Blocking Peptide - References

Chu, H.Y., et al. J Mol Model 15(3):323-328(2009) Wu, M., et al. DNA Seq. 16(2):137-142(2005) Traving, C., et al. Eur. J. Biochem. 268(24):6473-6486(2001) Sood, R., et al. Genomics 73(2):211-222(2001)