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NPL Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18910a

Specification

NPL Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	Q9BXD5
Other Accession	NP_110396.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**35163**
Antigen Region	**49-77**

NPL Antibody (N-term) - 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

Target/Specificity
This NPL antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 49-77 amino acids from the N-terminal region of human NPL.

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

NPL Antibody (N-term) - 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.

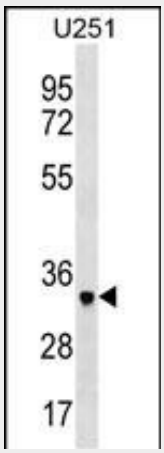
Tissue Location
Isoform 2 is expressed in placenta, liver, kidney, pancreas, spleen, thymus, ovary, small intestine and peripheral blood leukocyte.

NPL Antibody (N-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

NPL Antibody (N-term) - Images



NPL Antibody (N-term)(Cat. #AP18910a) western blot analysis in U251 cell line lysates (35ug/lane).This demonstrates the NPL antibody detected the NPL protein (arrow).

NPL Antibody (N-term) - 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) - 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)