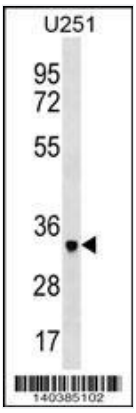
NPL Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NPL, Polyclonal Antibody
Full Product Name	NPL, NT (NPL, C1orf13, N-acetylneuraminate lyase, N-acetylneuraminate pyruvate-lyase, N-acetylneuraminic acid aldolase, Sialate lyase, Sialate-pyruvate lyase, Sialic acid aldolase, Sialic acid lyase) (APC)
Product Gene Name	anti-NPL antibody
Product Synonym Names	NPL; C1orf13; N-acetylneuraminate lyase; N-acetylneuraminate pyruvate-lyase; N-acetylneuraminic acid aldolase; Sialate lyase; Sialate-pyruvate lyase; Sialic acid aldolase; Sialic acid lyase
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
OMIM	611412
3D Structure	ModBase 3D Structure for Q9BXD5
Immunogen	NPL antibody is generated from rabbits immunized with a KLH conjugated synthetic between 48-77 amino acids selected from the N-terminal region of human NPL.
Conjugate	APC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-NPL antibody	Antibodies; KIAA; orf
Applications Tested/Suitable for anti-NPL antibody	Western Blot (WB), FLISA
Application Notes for anti-NPL antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-NPL antibody	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]).
Product References and Citations for anti-NPL antibody	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).
Other Notes	Small volumes of anti-NPL antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for NPL purchase	MBS6326260 is an antibody targeting NPL. Also known as NPL, NT (NPL, C1orf13, N-acetylneuraminate lyase, N-acetylneuraminate pyruvate-lyase, N-acetylneuraminic acid aldolase, Sialate lyase, Sialate-pyruvate lyase, Sialic acid aldolase, Sialic acid lyase) (APC). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-NPL antibody
NPL Antibody (N-term) western blot analysis in U251 cell line lysates (35ug/lane).This demonstrates the NPL antibody detected the NPL protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NPL. It may not necessarily be applicable to this product.

NCBI GI #	13540533
NCBI GeneID	80896
NCBI Accession #	NP_110396.1
UniProt Primary Accession #	Q9BXD5
UniProt Related Accession #	Q9BXD5
GenBank Nucleotide #	NP_110396.1
NCBI Official Full Name	N-acetylneuraminate lyase isoform 1
NCBI Official Synonym Full Names	N-acetylneuraminate pyruvate lyase
NCBI Official Symbol	NPL
NCBI Official Synonym Symbols	NAL; C112; NPL1; C1orf13
UniProt Protein Name	N-acetylneuraminate lyase
UniProt Synonym Protein Names	N-acetylneuraminate pyruvate-lyase; N-acetylneuraminic acid aldolase; Sialate lyase; Sialate-pyruvate lyase; Sialic acid aldolase; Sialic acid lyase
Protein Family	NPL4-like protein
UniProt Gene Name	NPL
UniProt Synonym Gene Names	C1orf13; NALase
UniProt Entry Name	NPL_HUMAN
NCBI Protein Information	N-acetylneuraminate lyase
NCBI Summary for NPL	This gene encodes a member of the N-acetylneuraminate lyase sub-family of (beta/alpha)(8)-barrel enzymes. N-acetylneuraminate lyases regulate cellular concentrations of N-acetyl-neuraminic acid (sialic acid) by mediating the reversible conversion of sialic acid into N-acetylmannosamine and pyruvate. A pseudogene of this gene is located on the short arm of chromosome 2. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jan 2011]

UniProt Comments for NPL	NPL: Catalyzes the cleavage of N-acetylneuraminic acid (sialic acid) to form pyruvate and N-acetylmannosamine via a Schiff base intermediate. It prevents sialic acids from being recycled and returning to the cell surface. Belongs to the DHDPS family. NanA subfamily. 5 isoforms of the human protein are produced by alternative splicing. Protein type: Lyase; Carbohydrate Metabolism - amino sugar and nucleotide sugar; EC 4.1.3.3 Chromosomal Location of Human Ortholog: 1q25 Cellular Component: cytosol Molecular Function: N-acetylneuraminate lyase activity Biological Process: N-acetylneuraminate catabolic process; cellular protein metabolic process; dolichol-linked oligosaccharide biosynthetic process; protein amino acid N-linked glycosylation via asparagine; post-translational protein modification
Research Articles on NPL	**1.** 3D structure model of N-acetylneuraminate lyase from human (hNAL, EC 4.1.3.3) was created and refined
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