

# NPL/N-acetylneuraminate lyase Rabbit pAb

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Catalog # AP57478

## Product Information

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| <b>Application</b>             | IHC-P, IHC-F, IF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Primary Accession</b>       | <a href="#">Q9BXD5</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Predicted</b>               | Rat, Dog, Human, Mouse, Horse, Sheep                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Host</b>                    | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Clonality</b>               | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Calculated MW</b>           | 35163                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Physical State</b>          | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Immunogen</b>               | KLH conjugated synthetic peptide derived from human NPL/N-acetylneuraminate lyase                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Epitope Specificity</b>     | 161-260/320                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Isotype</b>                 | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>                  | affinity purified by Protein A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Buffer</b>                  | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>SUBCELLULAR LOCATION</b>    | Cytoplasm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Important Note</b>          | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Background Descriptions</b> | 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] |

## Additional Information

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| <b>Gene ID</b>     | 80896                                                                                                                                                                                                                                         |
| <b>Other Names</b> | N-acetylneuraminate lyase, NALase, 4.1.3.3, N-acetylneuraminate pyruvate-lyase, N-acetylneuraminic acid aldolase, Sialate lyase, Sialate-pyruvate lyase, Sialic acid aldolase, Sialic acid lyase, NPL ( <a href="#">HGNC:16781</a> ), C1orf13 |
| <b>Dilution</b>    | IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500<br>0-10000                                                                                                                                                          |
| <b>Storage</b>     | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.                                               |

## Protein Information

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| <b>Name</b>              | NPL ( <a href="#">HGNC:16781</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Synonyms</b>          | C1orf13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Function</b>          | Catalyzes the cleavage of N-acetylneuraminic acid (sialic acid) to form pyruvate and N-acetylmannosamine via a Schiff base intermediate (PubMed: <a href="#">33895133</a> ). It prevents sialic acids from being recycled and returning to the cell surface (PubMed: <a href="#">33895133</a> ). Involved in the N-glycolylneuraminic acid (Neu5Gc) degradation pathway (PubMed: <a href="#">22692205</a> , PubMed: <a href="#">33895133</a> ). 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). |
| <b>Cellular Location</b> | Cytoplasm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Tissue Location</b>   | Isoform 2 is expressed in placenta, liver, kidney, pancreas, spleen, thymus, ovary, small intestine and peripheral blood leukocyte.                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## Background

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This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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