

For Research Use Only

NPL Recombinant antibody

Catalog Number: 85608-3-RR



Basic Information

Catalog Number:

85608-3-RR

Size:

100ul, Concentration: 1000 µg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG10137

GenBank Accession Number:

BC058003

GeneID (NCBI):

80896

UNIPROT ID:

Q9BXD5

Full Name:

N-acetylneuraminate pyruvate lyase (dihydrodipicolinate synthase)

Calculated MW:

27 kDa, 35 kDa

Observed MW:

35 kDa

Purification Method:

Protein A purification

CloneNo.:

243037E2

Recommended Dilutions:

WB 1:5000-1:50000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB: mouse kidney tissue, rat brain tissue, rat kidney tissue, mouse brain tissue

Background Information

The N-acetylneuraminate lyase(NPL) from human (hNAL) which consists of 320 amino acids, has a molecular mass of 35.2 kDa and it catalyses the reversible aldol reaction of sialic acid, and has been extensively used in the synthesis of sialic acids and its analogues(PMID:19057931). The enzyme is widely distributed and are present in numerous pro- and eukaryotic cells, in which they are localized only in the cytosol(PMID:12453637). It belongs to the DHDPS family and has 5 isoforms produced by alternative splicing.

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

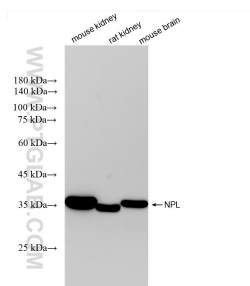
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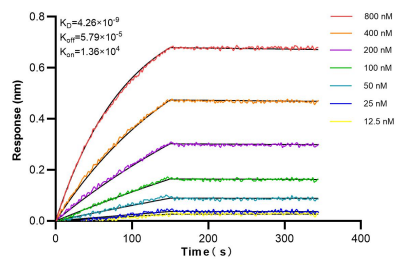
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 85608-3-RR (NPL antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 85608-3-RR against Human NPL were performed. The affinity constant is 4.26 nM.