

For Research Use Only

# NPL Polyclonal antibody

Catalog Number:16715-1-AP



## Basic Information

<b>Catalog Number:</b> 16715-1-AP	<b>GenBank Accession Number:</b> BC058003	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 400 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 80896	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:250-1:1000 IF/ICC 1:200-1:800
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9BXD5	
<b>Isotype:</b> IgG	<b>Full Name:</b> N-acetylneuraminate pyruvate lyase (dihydrodipicolinate synthase)	
<b>Immunogen Catalog Number:</b> AG10137	<b>Calculated MW:</b> 27 kDa, 35 kDa	
	<b>Observed MW:</b> 35 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, ELISA

**Species Specificity:**  
human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB :** mouse brain tissue, mouse kidney tissue, Raji cells, rat brain tissue, rat kidney tissue

**IHC :** human ovary cancer tissue,

**IF/ICC :** MCF-7 cells,

## 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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

**\*\*\* 20ul sizes contain 0.1% BSA**

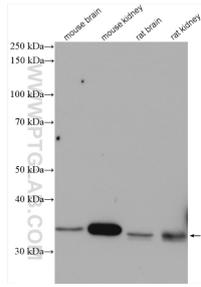
For technical support and original validation data for this product please contact:

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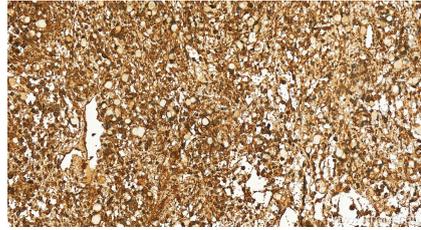
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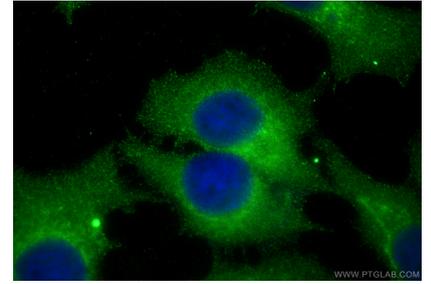
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 16715-1-AP (NPL antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 16715-1-AP (NPL antibody) at dilution of 1:500 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using NPL antibody (16715-1-AP) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).