

For Research Use Only

NPL Polyclonal antibody

Catalog Number:16715-1-AP



Basic Information

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

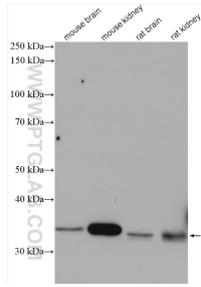
For technical support and original validation data for this product please contact:

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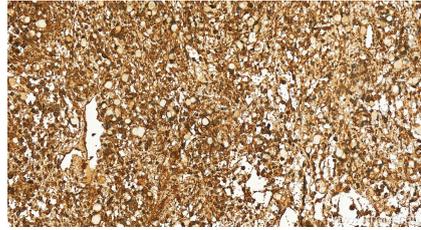
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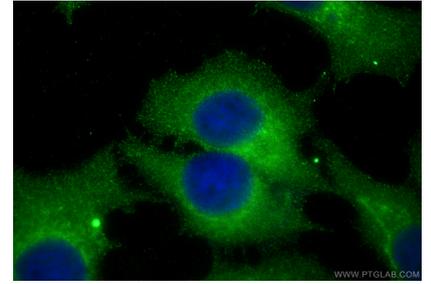
Selected Validation Data



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).