

For Research Use Only

# PTN Polyclonal antibody

Catalog Number: 27117-1-AP

Featured Product

6 Publications



## Basic Information

### Catalog Number:

27117-1-AP

### Size:

150ul, Concentration: 450 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG26004

### GenBank Accession Number:

BC005916

### GeneID (NCBI):

5764

### UNIPROT ID:

P21246

### Full Name:

pleiotrophin

### Calculated MW:

18 kDa

### Observed MW:

17-19 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB, IF

### Species Specificity:

human

### Cited Species:

human, pig

**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 : fetal human brain tissue, U-87 MG cells

IHC : human brain tissue,

## Background Information

Pleiotrophin (PTN) is a multifunctional, cationic, glycosaminoglycan-binding cytokine and growth factor involved in numerous physiological and pathological processes, including tissue repair and inflammation-related diseases. PTN is highly upregulated in the brain in different disorders characterized by overt neuroinflammation such as neurodegenerative diseases, drug addiction, traumatic injury, and ischemia. PTN is important for CNS repair and for survival and differentiation of dopaminergic neurons.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yuanyuan Yao	31059061	Oncol Rep	WB
Chang Liu	39668573	J Oral Rehabil	WB
Lin Rao	37783617	Sci Bull (Beijing)	IF

## 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

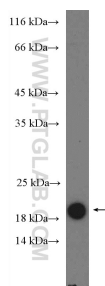
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

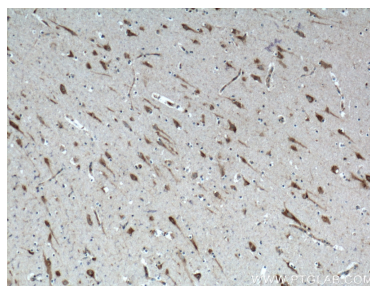
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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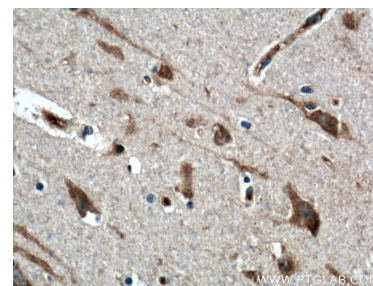
## Selected Validation Data



fetal human brain tissue were subjected to SDS PAGE followed by western blot with 27117-1-AP (PTN Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 27117-1-AP (PTN antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 27117-1-AP (PTN antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).