

# PTPN18 Polyclonal antibody

Catalog Number: 17551-1-AP

3 Publications

## Basic Information

## Catalog Number:

17551-1-AP

## Size:

150ul, Concentration: 320 µg/ml by Nanodrop and 320 µg/ml by Bradford method using BSA as the standard;

## Source:

Rabbit

## Isotype:

IgG

## Immunogen Catalog Number:

AG11704

## GenBank Accession Number:

BC052800

## GeneID (NCBI):

26469

## UNIPROT ID:

Q99952

## Full Name:

protein tyrosine phosphatase, non-receptor type 18 (brain-derived)

## Calculated MW:

460 aa, 50 kDa

## Observed MW:

50 kDa

## Purification Method:

Antigen affinity purification

## Recommended Dilutions:

WB 1:500-1:3000

IHC 1:20-1:200

## Applications

## Tested Applications:

WB, IHC, ELISA

## Cited Applications:

WB, IHC, IF

## Species Specificity:

human

## Cited Species:

human, mouse

**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: Jurkat cells, human brain tissue

IHC: human brain tissue,

## Background Information

PTPN18 (Tyrosine-protein phosphatase non-receptor type 18) is also named as BDP1 and belongs to the protein-tyrosine phosphatase family. The PTPN18 cDNA encodes a deduced 459-amino acid protein with no transmembrane domain and a calculated molecular weight of 50 kD. PTPN18 has a PEST motif and shares the greatest homology with members of the PTP-PEST gene family. Northern blot analysis indicated that PTPN18 is expressed not only in brain, but also in colon and several different tumor-derived cell lines. (PMID:8950995). It has 2 isoforms produced by alternative splicing.

## Notable Publications

Author	Pubmed ID	Journal	Application
Guangyan Zhangyuan	29742497	Cell Physiol Biochem	IHC
Junhong Cai	31034093	Clin Exp Pharmacol Physiol	WB
Zhenyu Zhou	38787319	Mol Cancer Res	IHC, IF

## 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

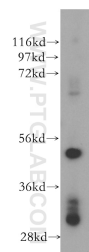
For technical support and original validation data for this product please contact:

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

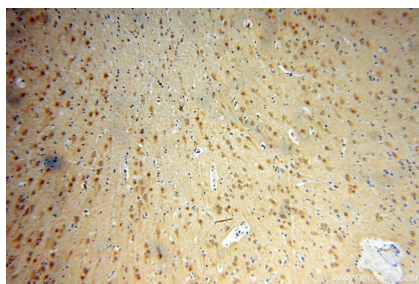
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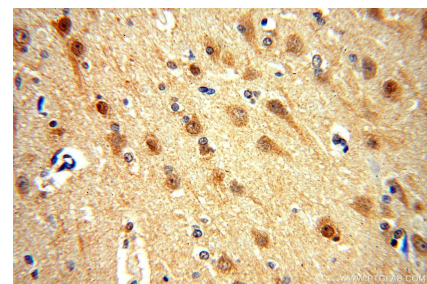
## Selected Validation Data



Jurkat cells were subjected to SDS PAGE followed by western blot with 17551-1-AP (PTPN18 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human brain using 17551-1-AP (PTPN18 antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human brain using 17551-1-AP (PTPN18 antibody) at dilution of 1:100 (under 40x lens).