

For Research Use Only

# PLAP Polyclonal antibody

Catalog Number: 18507-1-AP

Featured Product

12 Publications



## Basic Information

### Catalog Number:

18507-1-AP

### Size:

150ul, Concentration: 450 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG13361

### GenBank Accession Number:

BC009647

### GeneID (NCBI):

250

### UNIPROT ID:

P05187

### Full Name:

alkaline phosphatase, placental (Regan isozyme)

### Calculated MW:

58 kDa

### Observed MW:

66 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:3000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IP, IHC, ELISA

### Cited Applications:

WB, IHC

### Species Specificity:

human, mouse

### Cited Species:

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 : human placenta tissue, mouse liver tissue, HepG2 cells

IP : HepG2 cells,

IHC : human placenta tissue,

## Background Information

Placental alkaline phosphatase (PLAP) is a glycosyl phosphatidylinositol (GPI)-anchored sialoglycoprotein, which shows greater resistance to heat inactivation than other alkaline phosphatase. Presented at high levels in placental trophoblasts, PLAP is recognized as an important marker of differentiation in human malignancies.

## Notable Publications

Author	Pubmed ID	Journal	Application
Jinhui Wu	34655661	Mol Cell Endocrinol	WB
Jie Xu	33690174	Aging (Albany NY)	WB
Halina Jurkowska	29508061	Amino Acids	WB

## 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

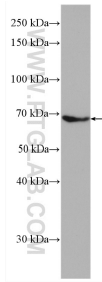
For technical support and original validation data for this product please contact:

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

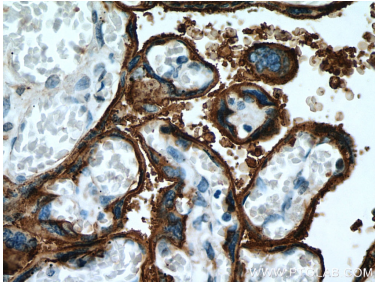
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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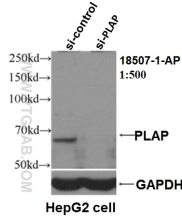
Selected Validation Data



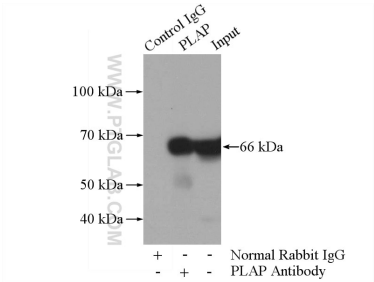
human placenta tissue were subjected to SDS PAGE followed by western blot with 18507-1-AP (PLAP antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 18507-1-AP (PLAP antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



WB result of PLAP antibody (18507-1-AP, 1:500) with si-control and si-PLAP transfected HepG2 cells.



IP result of anti-PLAP (IP:18507-1-AP, 4ug; Detection:18507-1-AP 1:700) with HepG2 cells lysate 1800ug.