

For Research Use Only

# PPID Polyclonal antibody

Catalog Number: 12716-1-AP

8 Publications



## Basic Information

### Catalog Number:

12716-1-AP

### Size:

150ul, Concentration: 260 ug/ml by Nanodrop and 153 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG3409

### GenBank Accession Number:

BC030707

### GeneID (NCBI):

5481

### UNIPROT ID:

Q08752

### Full Name:

peptidylprolyl isomerase D

### Calculated MW:

370 aa, 41 kDa

### Observed MW:

38-41 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

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

IHC 1:250-1:1000

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IF, CoIP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, bovine

**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, A549 cells, human brain tissue, Jurkat cells, MCF-7 cells, NIH/3T3 cells, Raji cells, rat brain tissue

**IP**: mouse brain tissue,

**IHC**: mouse testis tissue, human cervical cancer tissue

**IF/ICC**: K-562 cells,

## Background Information

PPID (Peptidyl-prolyl cis-trans isomerase D) is also named CYP40, CYPD, and belongs to the cyclophilin-type PPIase family, which accelerates the folding of proteins. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides. The inactivation of the Ppid gene rescued the disease phenotype of Col6a1 deficiency (PMID:19293339). This PPID antibody detected a strong band at an apparent molecular mass of 41 kDa and a weak band at 70 kDa due to crosslink (PMID: 33320090, 29097228).

## Notable Publications

Author	Pubmed ID	Journal	Application
Tingting Wu	35593990	Cardiovasc Toxicol	WB, CoIP
Yong-Cheng Ma	30659827	Eur J Pharmacol	WB
Da-Wei Liu	31059047	Mol Med Rep	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

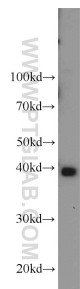
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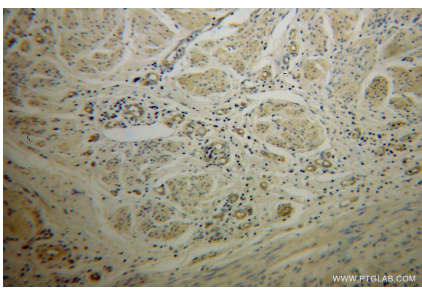
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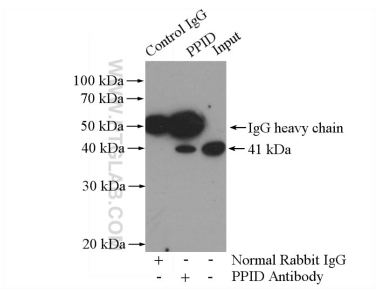
Selected Validation Data



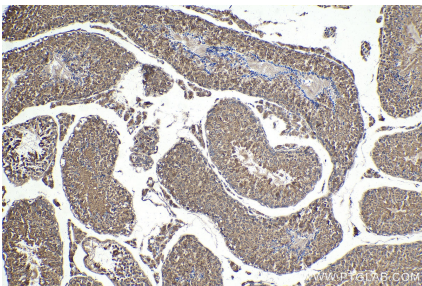
mouse brain tissue were subjected to SDS PAGE followed by western blot with 12716-1-AP (PPID antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



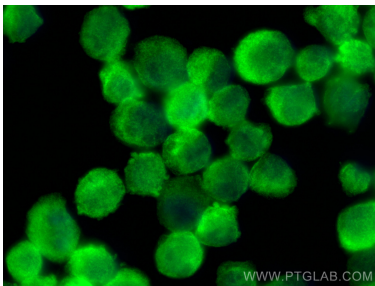
Immunohistochemical analysis of paraffin-embedded human cervical cancer using 12716-1-AP (PPID antibody) at dilution of 1:50 (under 10x lens).



IP result of anti-PPID (IP:12716-1-AP, 4ug; Detection:12716-1-AP 1:1000) with mouse brain tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 12716-1-AP (PPID antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed K-562 cells using PPID antibody (12716-1-AP) at dilution of 1:200 and Multi-rAb Coralite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).