

# PPID Polyclonal antibody

 Catalog Number: 12716-1-AP 7 Publications

## Basic Information

<p><b>Catalog Number:</b> 12716-1-AP</p> <p><b>Size:</b> 260 µg/ml</p> <p><b>Source:</b> Rabbit</p> <p><b>Isotype:</b> IgG</p> <p><b>Immunogen Catalog Number:</b> AG3409</p>	<p><b>GenBank Accession Number:</b> BC030707</p> <p><b>GeneID (NCBI):</b> 5481</p> <p><b>UNIPROT ID:</b> Q08752</p> <p><b>Full Name:</b> peptidylprolyl isomerase D</p> <p><b>Calculated MW:</b> 370 aa, 41 kDa</p> <p><b>Observed MW:</b> 38-41 kDa</p>	<p><b>Purification Method:</b> Antigen affinity purification</p> <p><b>Recommended Dilutions:</b> WB 1:500-1:2000 IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate IHC 1:250-1:1000</p>
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## Applications

<p><b>Tested Applications:</b> FC, IHC, IP, WB, ELISA</p> <p><b>Cited Applications:</b> WB, IF, CoIP</p> <p><b>Species Specificity:</b> human, mouse, rat</p> <p><b>Cited Species:</b> human, rat, mouse, bovine</p> <p><b>Note-IHC:</b> <i>suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</i></p>	<p><b>Positive Controls:</b></p> <p><b>WB :</b> mouse brain tissue, A549 cells, human brain tissue, Jurkat cells, MCF-7 cells, NIH/3T3 cells, Raji cells, rat brain tissue</p> <p><b>IP :</b> mouse brain tissue,</p> <p><b>IHC :</b> mouse testis tissue, human cervical cancer tissue</p>
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## 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

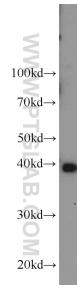
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.

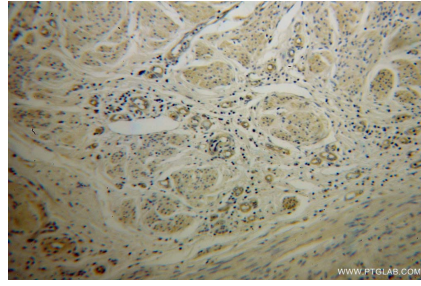
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

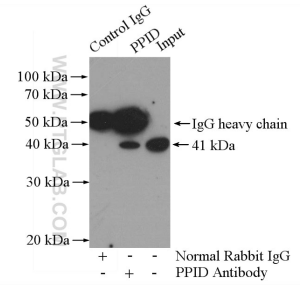
## Selected Validation Data



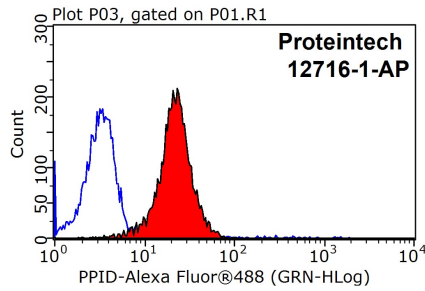
mouse brain tissue were subjected to SDS PAGE followed by western blot with 12716-1-AP (PPID antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



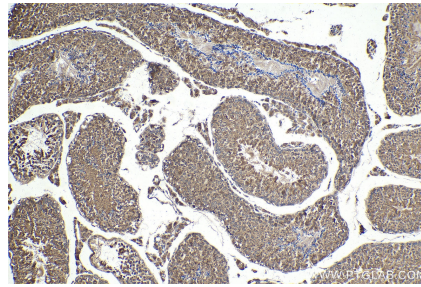
Immunohistochemical analysis of paraffin-embedded human cervical cancer using 12716-1-AP (PPID antibody) at dilution of 1:50 (under 10x lens).



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



1X10<sup>6</sup> HeLa cells were stained with 0.2ug PPID antibody (12716-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.



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).