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PPID Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP8788a

Specification

PPID Antibody (N-term) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	Q08752
Other Accession	Q6DGG0, Q9CR16
Reactivity	**Human, Mouse**
Predicted	**Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit Ig**
Calculated MW	**40764**
Antigen Region	**85-115**

PPID Antibody (N-term) - Additional Information

Gene ID 5481

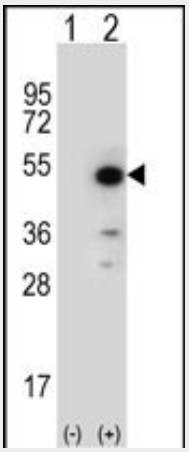
Other Names
Peptidyl-prolyl cis-trans isomerase D, PPIase D, 40 kDa peptidyl-prolyl cis-trans isomerase, Cyclophilin-40, CYP-40, Cyclophilin-related protein, Rotamase D, PPID, CYP40, CYPD

Target/Specificity
This PPID antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 85-115 amino acids from the N-terminal region of human PPID.

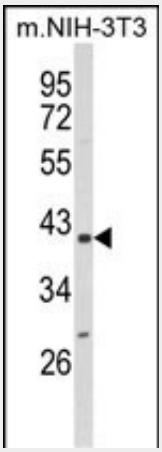
Dilution
WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw



Western blot analysis of PPID (arrow) using rabbit polyclonal PPID Antibody (N-term) (Cat. #AP8788a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the PPID gene.



Western blot analysis of PPID Antibody (N-term) (Cat. #AP8788a) in NIH-3T3 cell line lysates (35ug/lane). PPID (arrow) was detected using the purified Pab.

cycles.

Precautions
PPID Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PPID Antibody (N-term) - Protein Information

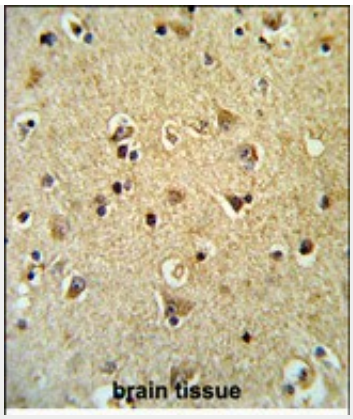
Name PPID (HGNC:9257)

Synonyms CYP40, CYPD

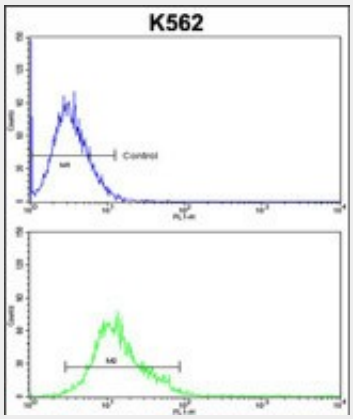
Function
PPIase that catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and may therefore assist protein folding (PubMed:11350175, PubMed:20676357). Proposed to act as a co- chaperone in HSP90 complexes such as in unligated steroid receptors heterocomplexes. Different co-chaperones seem to compete for association with HSP90 thus establishing distinct HSP90-co-chaperone- receptor complexes with the potential to exert tissue-specific receptor activity control. May have a preference for estrogen receptor complexes and is not found in glucocorticoid receptor complexes. May be involved in cytoplasmic dynein-dependent movement of the receptor from the cytoplasm to the nucleus. May regulate MYB by inhibiting its DNA- binding activity. Involved in regulation of AHR signaling by promoting the formation of the AHR:ARNT dimer; the function is independent of HSP90 but requires the chaperone activity. Involved in regulation of UV radiation-induced apoptosis. Promotes cell viability in anaplastic lymphoma kinase-positive anaplastic large-cell lymphoma (ALK+ ALCL) cell lines.

Cellular Location
Cytoplasm. Nucleus, nucleolus. Nucleus, nucleoplasm

Tissue Location
Widely expressed.



Formalin-fixed and paraffin-embedded human brain tissue reacted with PPID Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



PPID Antibody (N-term) (Cat. #AP8788a) flow cytometric analysis of k562 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

PPID Antibody (N-term) - Background

PPIases accelerate the folding of proteins. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides.

PPID Antibody (N-term) - References

Mayya V.,et.al., Sci. Signal. 2:RA46-RA46(2009).
Gevaert K., et.al., Nat. Biotechnol. 21:566-569(2003).

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PPID Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture