

PPID / Cyclophilin D Antibody (clone 4C7)
Mouse Monoclonal Antibody
Catalog # ALS16117**Specification**

PPID / Cyclophilin D Antibody (clone 4C7) - Product Information

Application	WB, IF, IHC
Primary Accession	Q08752
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	41kDa KDa

PPID / Cyclophilin D Antibody (clone 4C7) - Additional Information**Gene ID** 5481**Other Names**

Peptidyl-prolyl cis-trans isomerase D, PPIase D, 5.2.1.8, 40 kDa peptidyl-prolyl cis-trans isomerase, Cyclophilin-40, CYP-40, Cyclophilin-related protein, Rotamase D, PPID, CYP40, CYPD

Target/Specificity

Human PPID / Cyclophilin D

Reconstitution & Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions

PPID / Cyclophilin D Antibody (clone 4C7) is for research use only and not for use in diagnostic or therapeutic procedures.

PPID / Cyclophilin D Antibody (clone 4C7) - 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](http://www.uniprot.org/citations/11350175), PubMed: [20676357](http://www.uniprot.org/citations/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.

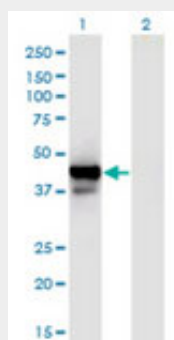
Volume

50 µl

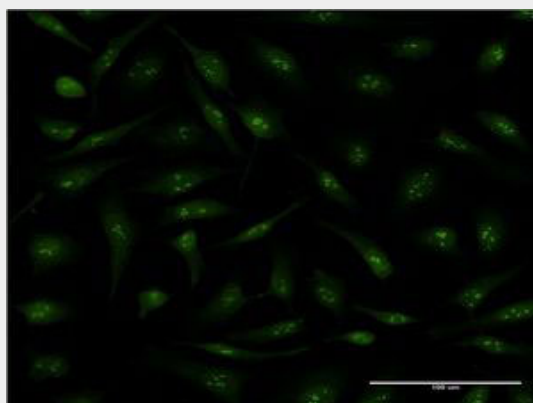
PPID / Cyclophilin D Antibody (clone 4C7) - Protocols

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

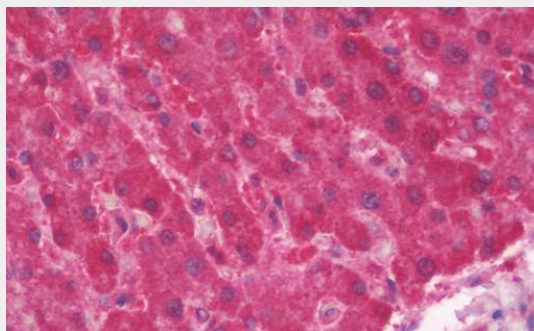
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PPID / Cyclophilin D Antibody (clone 4C7) - Images

Western Blot analysis of PPID expression in transfected 293T cell line by PPID monoclonal...



Immunofluorescence of monoclonal antibody to PPID on HeLa cell . [antibody concentration 10 ug/ml]



Anti-PPID / Cyclophilin D antibody IHC staining of human liver.

PPID / Cyclophilin D Antibody (clone 4C7) - Background

PPIases accelerate the folding of proteins. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides. 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. May be involved in hepatitis C virus (HCV) replication and release.

PPID / Cyclophilin D Antibody (clone 4C7) - References

Kieffer L.J.,et al.J. Biol. Chem. 268:12303-12310(1993).
Yokoi H.,et al.Genomics 35:448-455(1996).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Gevaert K.,et al.Nat. Biotechnol. 21:566-569(2003).