

**PPIF Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP16334c**

**Specification**

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**PPIF Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P30405</a>
Other Accession	<a href="#">P29117</a> , <a href="#">NP_005720.1</a>
Reactivity	Human
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	22040
Antigen Region	103-131

**PPIF Antibody (Center) - Additional Information**

**Gene ID** 10105

**Other Names**

Peptidyl-prolyl cis-trans isomerase F, mitochondrial, PPlase F, Cyclophilin D, CyP-D, CypD, Cyclophilin F, Mitochondrial cyclophilin, CyP-M, Rotamase F, PPIF, CYP3

**Target/Specificity**

This PPIF antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 103-131 amino acids from the Central region of human PPIF.

**Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**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 cycles.

**Precautions**

PPIF Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**PPIF Antibody (Center) - Protein Information**

**Name** PPIF

## Synonyms CYP3

**Function** PPIase that catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and may therefore assist protein folding (PubMed:[20676357](#)). Involved in regulation of the mitochondrial permeability transition pore (mPTP) (PubMed:[26387735](#)). It is proposed that its association with the mPTP is masking a binding site for inhibiting inorganic phosphate (Pi) and promotes the open probability of the mPTP leading to apoptosis or necrosis; the requirement of the PPIase activity for this function is debated (PubMed:[26387735](#)). In cooperation with mitochondrial p53/TP53 is involved in activating oxidative stress-induced necrosis (PubMed:[22726440](#)). Involved in modulation of mitochondrial membrane F(1)F(0) ATP synthase activity and regulation of mitochondrial matrix adenine nucleotide levels (By similarity). Has anti-apoptotic activity independently of mPTP and in cooperation with BCL2 inhibits cytochrome c-dependent apoptosis (PubMed:[19228691](#)).

## Cellular Location

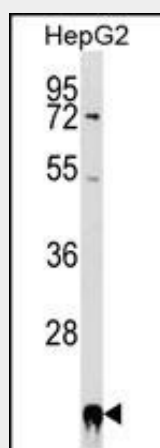
Mitochondrion matrix

## PPIF Antibody (Center) - 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](#)

## PPIF Antibody (Center) - Images



PPIF Antibody (Center) (Cat. #AP16334c) western blot analysis in HepG2 cell line lysates (35ug/lane). This demonstrates the PPIF antibody detected the PPIF protein (arrow).

## PPIF Antibody (Center) - Background

PPIF is a member of the peptidyl-prolyl cis-trans isomerase (PPIase) family. PPIases catalyze the cis-trans isomerization of proline imidic peptide

bonds in oligopeptides and accelerate the folding of proteins. This protein is part of the mitochondrial permeability transition pore in the inner mitochondrial membrane. Activation of this pore is thought to be involved in the induction of apoptotic and necrotic cell death.

#### **PPIF Antibody (Center) - References**

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :  
He, Y., et al. Invest. Ophthalmol. Vis. Sci. 49(11):4912-4922(2008)  
Lamesch, P., et al. Genomics 89(3):307-315(2007)  
Lin, D.T., et al. J. Biol. Chem. 277(34):31134-31141(2002)  
Bowles, K.R., et al. Genomics 67(2):109-127(2000)