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# Human Cyclophilin F/PPIF antibody

Catalog Number: ATGA0139

#### **PRODUCT INFORMATION**

### Catalog number

ATGA0139

#### Clone No.

AT1F5

# **Product type**

Monoclonal Antibody

#### UnitProt No.

P30405

#### **NCBI Accession No.**

NP 005720

#### **Alternative Names**

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

### **PRODUCT SPECIFICATION**

#### **Antibody Host**

Mouse

# **Reacts With**

Human

#### **Concentration**

1mg/ml (determined by BCA assay)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

# **Immunogen**

Recombinant human PPIF (30-207aa) purified from E. coli

### Isotype

IgG2b kappa

#### **Purification Note**

By protein-G affinity chromatography

#### **Application**

ELISA, WB, ICC/IF, IHC

#### **Usage**

The antibody has been tested by ELISA, Western blot, ICC/IF and IHC analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.



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#### Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

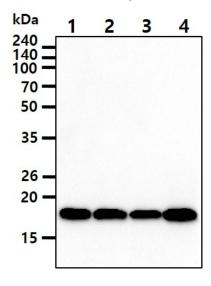
Cyclophilin F (also known as Peptidylprolyl isomerase F, PPIF) is a member of peptidyl-prolyl cis-transisomerase family. They are highly-conserved cytoplasmic enzymes that accelerate protein folding. This protein is part of the mitochondrial permeability transition pore in the inner mitochondrial membrane. Activation of this pore is thought to be involved in the induction of apoptotic and necrotic cell death.

#### **General References**

Bowles KR, et al., (2000) Genomics 67(2):109-127 Bergsma DJ, et al., (1991) | Biol Chem 266(34):23204-23214

# **DATA**

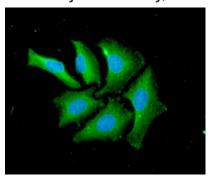
### Western blot analysis (WB)



The cell lysates(40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PPIF antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: 293T cell lysate Lane 2.: HepG2 cell lysate Lane 3.: MCF7 cell lysate Lane 4.: PC3 cell lysate

#### Immunocytochemistry/Immunofluorescence (ICC/IF)



Immunohistochemistry (IHC)

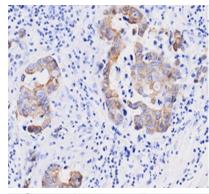
ICC/IF analysis of PPIF in HeLa cells. The cell was stained with ATGA0139 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

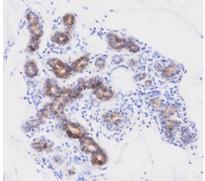


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Paraffin embedded sections of human breast cancer tissue were incubated with anti-human PPIF (1:50) for 2 hours at room temperature. Antigen retrieval was performed in 0.1M sodium citrate buffer and detected using Diaminobenzidine (DAB).

