

**KD-Validated Anti-Peptidylprolyl isomerase F Rabbit Monoclonal Antibody**  
**Rabbit monoclonal antibody**  
**Catalog # AGI1070****Specification****KD-Validated Anti-Peptidylprolyl isomerase F Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	<a href="#">P30405</a>
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 22 kDa , observed, 18 kDa KDa
Gene Name	PPIF
Aliases	PPIF; Peptidylprolyl Isomerase F; Cyclophilin D; CypD; Peptidyl-Prolyl Cis-Trans Isomerase F, Mitochondrial; Mitochondrial Cyclophilin; Cyclophilin F; Rotamase F; EC 5.2.1.8; PPIase F; Cyp-D; CyP-M; CYP3; Peptidyl-Prolyl Cis-Trans Isomerase, Mitochondrial; Peptidylprolyl Isomerase F (Cyclophilin F; Cyclophilin 3; HCYP3; CYP-D; HCYP3; CyP-D; CYPD
Immunogen	A synthesized peptide derived from human Cyclophilin F

**KD-Validated Anti-Peptidylprolyl isomerase F Rabbit Monoclonal Antibody - Additional Information**Gene ID **10105****Other Names**

Peptidyl-prolyl cis-trans isomerase F, mitochondrial, PPIase F, 5.2.1.8, Cyclophilin D, CyP-D, CypD, Cyclophilin F, Mitochondrial cyclophilin, CyP-M, Rotamase F, PPIF, CYP3

**KD-Validated Anti-Peptidylprolyl isomerase F Rabbit Monoclonal Antibody - 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](http://www.uniprot.org/citations/20676357)). Involved in regulation of the mitochondrial permeability transition pore (mPTP) (PubMed:[26387735](http://www.uniprot.org/citations/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 PPlase activity for this function is debated (PubMed:<a href="http://www.uniprot.org/citations/26387735" target="\_blank">26387735</a>). In cooperation with mitochondrial p53/TP53 is involved in activating oxidative stress-induced necrosis (PubMed:<a href="http://www.uniprot.org/citations/22726440" target="\_blank">22726440</a>). 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:<a href="http://www.uniprot.org/citations/19228691" target="\_blank">19228691</a>).

#### Cellular Location

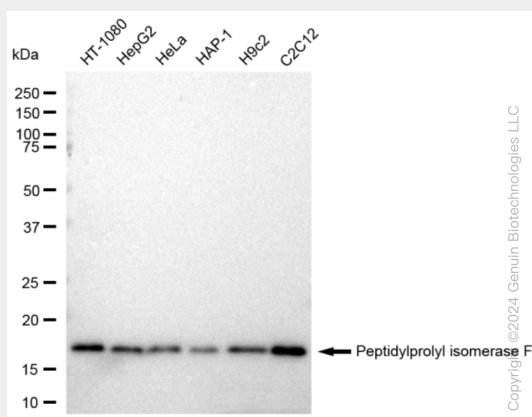
Mitochondrion matrix

### KD-Validated Anti-Peptidylprolyl isomerase F Rabbit Monoclonal Antibody - Protocols

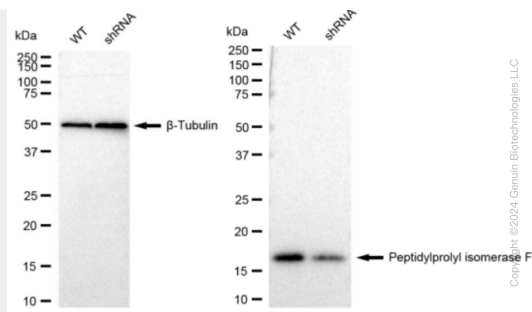
Provided below are standard protocols that you may find useful for product applications.

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

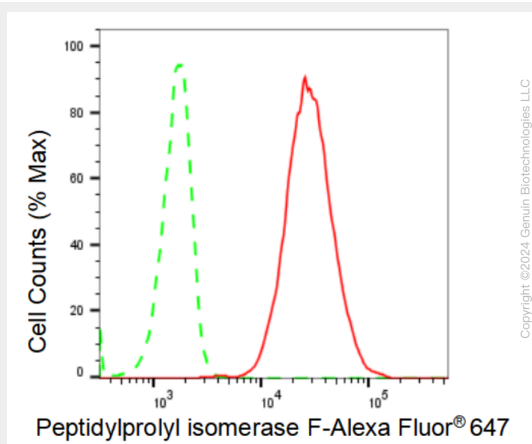
### KD-Validated Anti-Peptidylprolyl isomerase F Rabbit Monoclonal Antibody - Images



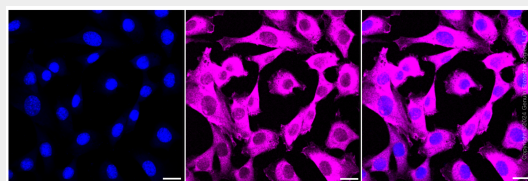
Western blotting analysis using anti-Peptidylprolyl isomerase F antibody (Cat#AGI1070). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Peptidylprolyl isomerase F antibody (Cat#AGI1070, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-Peptidylprolyl isomerase F antibody (Cat#AGI1070). Peptidylprolyl isomerase F expression in wild type (WT) and peptidylprolyl isomerase F shRNA knockdown (KD) HeLa cells with 30  $\mu$ g of total cell lysates.  $\beta$ -Tubulin serves as a loading control. The blot was incubated with anti-Peptidylprolyl isomerase F antibody (Cat#AGI1070, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Peptidylprolyl isomerase F expression in C2C12 cells using Peptidylprolyl isomerase F antibody (Cat#AGI1070, 1:2,000). Green, isotype control; red, Peptidylprolyl isomerase F.



Immunocytochemical staining of C2C12 cells with Peptidylprolyl isomerase F antibody (Cat#AGI1070, 1:1,000). Nuclei were stained blue with DAPI; Peptidylprolyl isomerase F was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20  $\mu$ m.