10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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	P30405
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). 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).

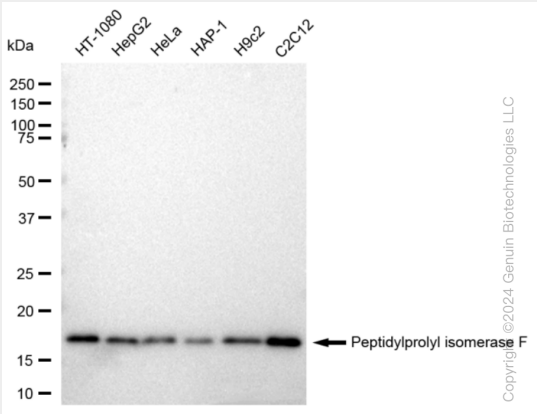
Cellular Location
Mitochondrion matrix

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 Cytomety
- 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.

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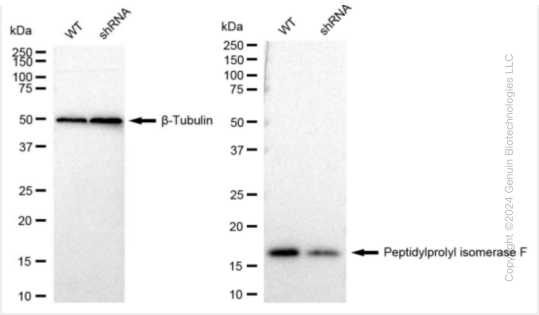
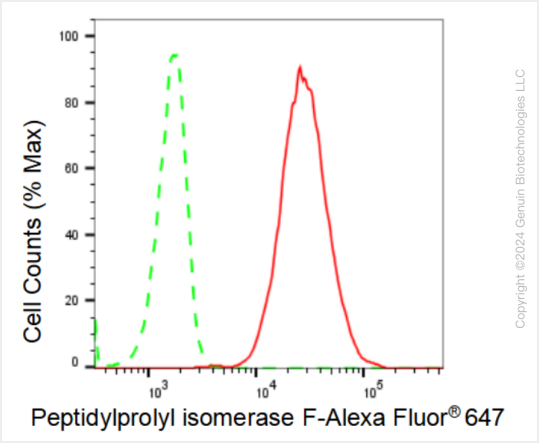
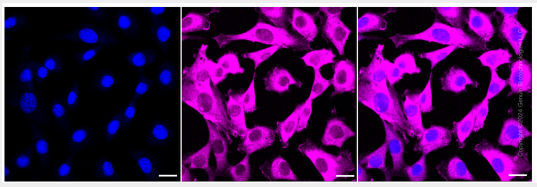


Western blotting analysis using anti-Peptidylprolyl isomerase F antibody (Cat#AGI1070). Peptidylprolyl isomerase F expression in wild type (WT) and peptidylprolyl isomerase F shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated 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 µm.