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

Rabbit monoclonal antibody
Catalog # AGI1070

## Product Information

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| **Application** | WB, FC, ICC |
| **Primary Accession** | P30405 |
| **Reactivity** | Rat, Human, Mouse |
| **Clonality** | Monoclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | 23GB 2140 |
| **Calculated MW** | 22040 |
| **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 |

## Additional Information

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| **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 |

## Protein Information

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| **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). |

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| | Has anti-apoptotic activity independently of mPTP and in cooperation with BCL2 inhibits cytochrome c-dependent apoptosis (PubMed:19228691). |
| **Cellular Location** | Mitochondrion matrix |