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KD-Validated Anti-Peptidylprolyl isomerase F Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1070

Product Information

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

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

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

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