

Rabbit PPIF Polyclonal Antibody | anti-PPIF antibody

PPIF Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA323854	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

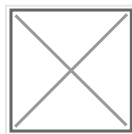
PRODUCT SYNONYMS

PPIF; Polyclonal Antibody; PPIF Antibody; Cyclophilin 3; cyclophilin D; Cyclophilin F; Cyp D; CyP M; CYP3; CypD; hCyP3; mitochondrial; Mitochondrial cyclophilin; Peptidyl prolyl cis trans isomerase; mitochondrial; Peptidyl-prolyl cis-trans isomerase F; Peptidylprolyl isomerase F (cyclophilin F); Peptidylprolyl isomerase F; PPIase; PPIase F; Ppif; PPIF_HUMAN; Rotamase; Rotamase F; anti-PPIF antibody

PRODUCT SPECIFICATIONS

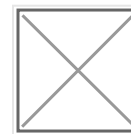
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PPIF antibody detects endogenous levels of total PPIF
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	207
Applicable Applications for anti-PPIF antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Mitochondrion Matrix.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken
Similarity	Pig (91%), Bovine (91%), Horse (100%), Sheep (91%), Rabbit (100%), Dog (100%), Chicken (91%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of extracts from HeLa cells using PPIF antibody.



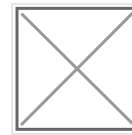
IHC (Immunohistochemistry)

AAA323854 at 1/100 staining Mouse muscle tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)

AAA323854 staining HepG2 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from mouse Brian cells using PPIF antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-PPIF antibody

Function: PPlases accelerate the folding of proteins. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides. Involved in regulation of the mitochondrial permeability transition pore (mPTP). 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. In cooperation with mitochondrial TP53 is involved in activating oxidative stress-induced necrosis. Involved in modulation of mitochondrial membrane F1F0 ATP synthase activity and regulation of mitochondrial matrix adenine nucleotide levels. Has anti-apoptotic activity independently of mPTP and in cooperation with BCL2 inhibits cytochrome c-dependent apoptosis.

Subunit Structure: Associates with the mitochondrial membrane ATP synthase F1F0 ATP synthase; the association is increased by inorganic phosphate (Pi) and decreased by cyclosporin A (CsA). Interacts with ATP5F1B; ATP5H and ATP5O. Interacts with SLC25A3; the interaction is impaired by CsA. Interacts with BCL2; the interaction is impaired by CsA. Interacts with TP53; the association implicates preferentially tetrameric TP53, is induced by oxidative stress and is impaired by CsA. Interacts with C1QBP. Interacts with MCUR1 (PubMed:26976564). Component of the mitochondrial permeability transition pore complex (mPTPC), at least composed of SPG7, VDAC1 and PPIF (PubMed:26387735). Interacts with SPG7 (PubMed:26387735).

Post-translational Modifications: Deacteylated at Lys-167 by SIRT3.

Similarity: Belongs to the cyclophilin-type PPlase family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	5031987
NCBI GeneID	10105
NCBI Accession #	NP_005720.1
NCBI GenBank Nucleotide #	NM_005729.3
UniProt Accession #	P30405; Q2YDB7; Q5W131
Molecular Weight	Observed: 22 kD Predicted: 23 kDa
NCBI Official Full Name	peptidyl-prolyl cis-trans isomerase F, mitochondrial
NCBI Official Synonym Full Names	peptidylprolyl isomerase F
NCBI Official Symbol	PPIF
NCBI Official Synonym Symbols	CYP3; CypD; CyP-M; Cyp-D
NCBI Protein Information	peptidyl-prolyl cis-trans isomerase F, mitochondrial
UniProt Protein Name	Peptidyl-prolyl cis-trans isomerase F, mitochondrial
UniProt Gene Name	PPIF
UniProt Synonym Gene Names	CYP3; PPlase F; CyP-D; CypD; CyP-M

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

