

## Product datasheet for **TA385023**

### Cyclophilin F (PPIF) Rabbit Monoclonal Antibody [Clone ID: R02-6I9]

#### Product data:

|                         |  |
|-------------------------|--|
| Product Type:           | Primary Antibodies   |
| Clone Name:             | R02-6I9  |
| Applications:           | IHC, WB  |
| Recommended Dilution:   | WB: 1/1000<br>IHC: 1/500   |
| Reactivity:             | Human, Mouse, Rat  |
| Host:                   | Rabbit   |
| Isotype:                | IgG  |
| Clonality:              | Monoclonal   |
| Immunogen:              | A synthetic peptide of human Cyclophilin F   |
| Formulation:            | 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA    |
| Concentration:          | lot specific   |
| Purification:           | Affinity Purified  |
| Conjugation:            | Unconjugated   |
| Storage:                | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |
| Stability:              | 1 year   |
| Predicted Protein Size: | Calculated MW: 22 kDa; Observed MW: 18 kDa   |
| Gene Name:              | peptidylprolyl isomerase F   |
| Database Link:          | <a href="#">Entrez Gene 10105 Human P30405</a>   |



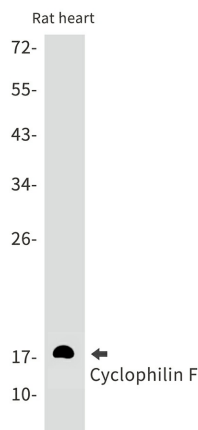
[View online »](#)

**Background:**

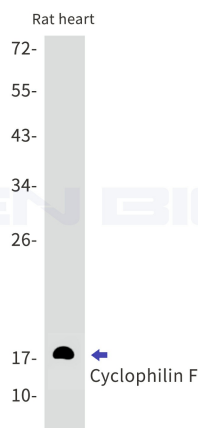
Swiss-Prot Acc.P30405.PPIase that catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and may therefore assist protein folding (PubMed:20676357). Involved in regulation of the mitochondrial permeability transition pore (mPTP). It is proposed that its association with 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. 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.

**Synonyms:**

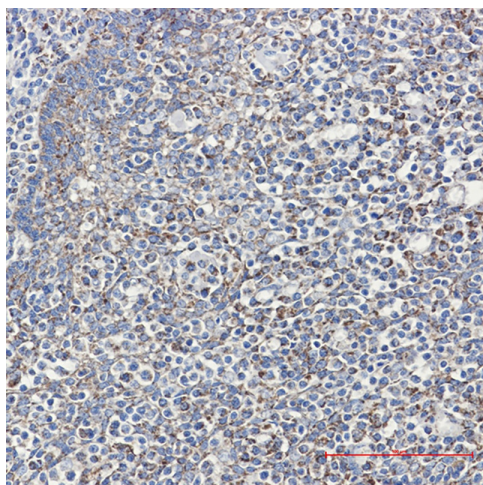
Cyp-D; CYP3; FLJ90798; hCyP3; MGC117207; PPIase; rotamase

**Product images:**

Western blot analysis of Cyclophilin F in rat heart lysates using Cyclophilin F antibody.



Western blot detection of Cyclophilin F in Rat heart lysates using Cyclophilin F antibody. Predicted band size: 22kDa. Observed band size: 18kDa.



Immunohistochemistry analysis of paraffin-embedded Human tonsil using Cyclophilin F antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.