[KD Validated] Anti-PPID Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R020982

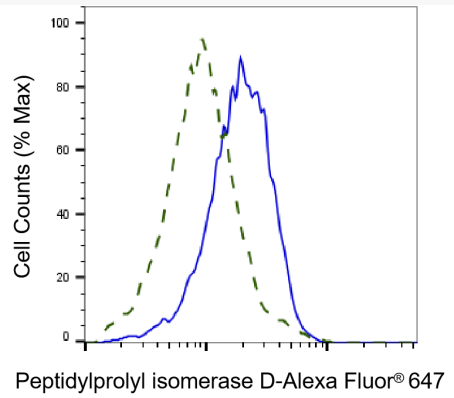
Product Information

Application	WB, FC, IF (Cell)/ICC
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:5,000; FC 1:200~1:2,000; IF 1:100~1:1,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	66J52J31
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Cyclophilin 40
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 12 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	[KD Validated] Anti-PPID Rabbit mAb [66J52J31] is for research use only and not for use in diagnostic or therapeutic procedures.

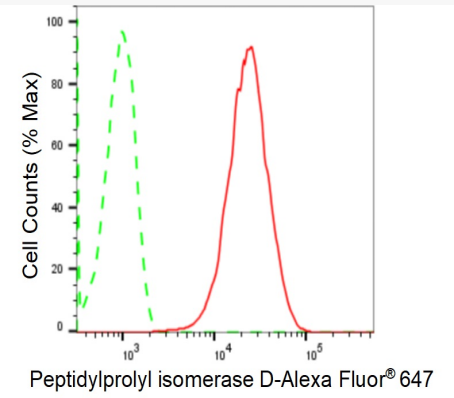
Protein Information

Synonyms	Peptidylprolyl Isomerase D; CYP-40; CypD; Peptidyl-Prolyl Cis-Trans Isomerase D; Cyclophilin-Related Protein; Cyclophilin 40; Rotamase D; EC 5.2.1.8; PPIase D; 40 KDa Peptidyl-Prolyl Cis-Trans Isomerase D; Peptidylprolyl Isomerase D (Cyclophilin D); 40 KDa Peptidyl-Prolyl Cis-Trans Isomerase; Testicular Tissue Protein Li 147; Cyclophilin-40; Cyclophilin D; CYP40; CYPD.
Calculated MW	Calculated MW: 41 kDa, Observed MW: 36 kDa
Uniprot ID	Q08752
Gene ID	5481
Background	The protein encoded by this gene is a member of the peptidyl-prolyl cis-trans isomerase (PPIase) family. PPIases catalyze the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and accelerate the folding of proteins. This protein has been shown to possess PPIase activity and, similar to other family members, can bind to the immunosuppressant cyclosporin A.

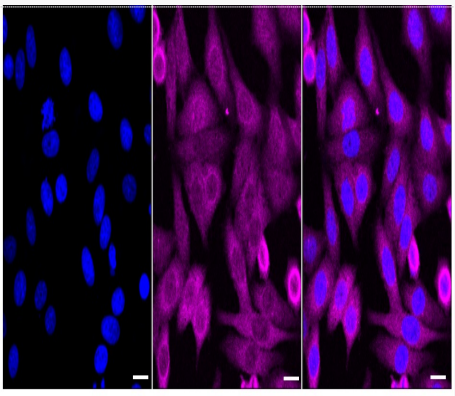
Validation Images



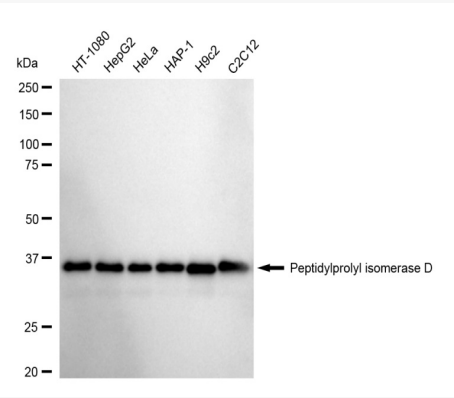
Validation of Peptidylprolyl isomerase D knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Peptidylprolyl isomerase D antibody (R020982, 1:2,000) and analyzed using BD flow cytometer.



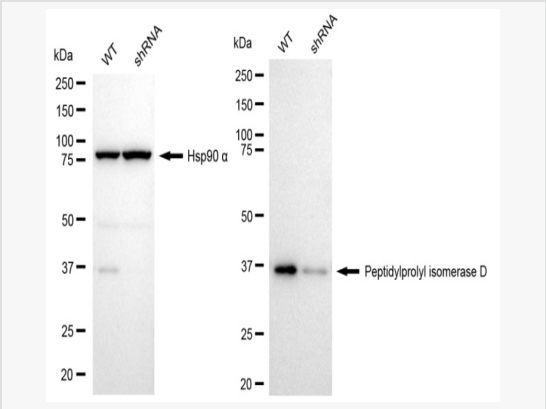
Flow cytometric analysis of Peptidylprolyl isomerase D expression in HepG2 cells using Peptidylprolyl isomerase D antibody (R020982, 1:2,000). Green, isotype control; red, Peptidylprolyl isomerase D.



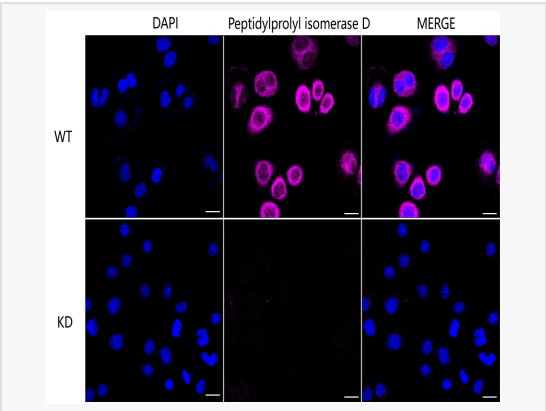
Immunocytochemical staining of HepG2 cells with Peptidylprolyl isomerase D antibody (R020982, 1:1,000). Nuclei were stained blue with DAPI; Peptidylprolyl isomerase D was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Western blotting analysis using Peptidylprolyl isomerase D antibody (R020982). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Peptidylprolyl isomerase D antibody (R020982, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.



Western blotting analysis using Peptidylprolyl isomerase D antibody (R020982). Peptidylprolyl isomerase D expression in wild type (WT) and Peptidylprolyl isomerase D shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Peptidylprolyl isomerase D antibody (R020982, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.



Immunocytochemical staining of HeLa cells using Peptidylprolyl isomerase D antibody (R020982, 1:1,000), Top panel: wild-type (WT); Bottom panal: Peptidylprolyl isomerase D shRNA knockdown (KD). Nuclei were stained blue with DAPI; Peptidylprolyl isomerase D was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.