Product Name: **KD-Validated Peptidylprolyl Isomerase D Recombinant Rabbit Monoclonal Antibody**

Catalog #: **KVAb00908**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:500-1:1,000
Molecular Weight	Calculated MW: 40.8kDa

Antigen Information

Gene Name	PPID
Alternative Names	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
Gene ID	5481.0
SwissProt ID	Q08752
Immunogen	A synthesized peptide derived from human Cyclophilin 40

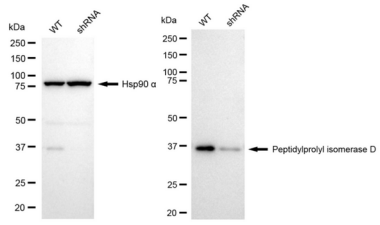
Background

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. [provided by RefSeq, Jul 2008]

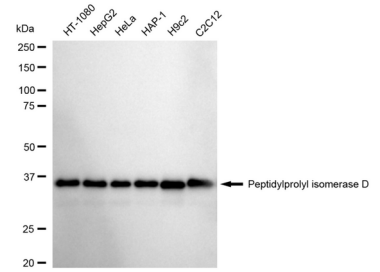
Research Area

Immunology

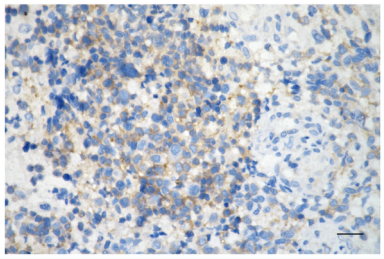
Image Data



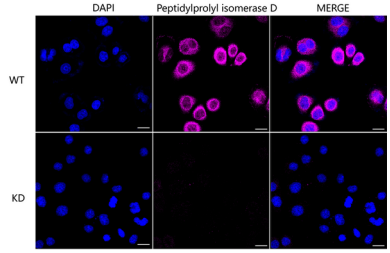
Western blotting analysis using Peptidylprolyl isomerase D antibody (KVAb00908). Peptidylprolyl isomerase D expression in wild type (WT) and Peptidylprolyl isomerase D shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Peptidylprolyl isomerase D antibody (KVAb00908, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



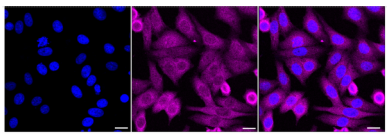
Western blotting analysis using Peptidylprolyl isomerase D antibody (KVAb00908). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Peptidylprolyl isomerase D antibody (KVAb00908, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



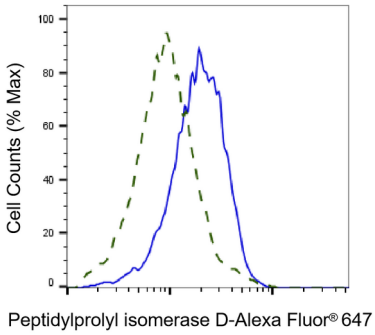
Immunohistochemistry was performed on paraffin-embedded human glioblastoma using peptidylprolyl isomerase D antibody (KVAb00908, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



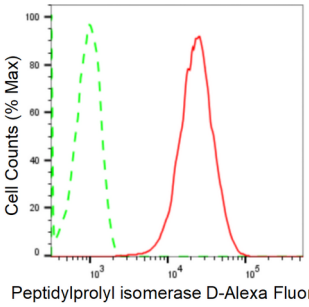
Immunocytochemical staining of HeLa cells using Peptidylprolyl isomerase D antibody (KVAb00908, 1:1,000), Top panel: wild-type (WT); Bottom panal: Peptidylprolyl isomerase D shRNA knockdown (KD). Nuclei were stained blue with DAPI; Peptidylprolyl isomerase D was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.



Immunocytochemical staining of HepG2 cells with Peptidylprolyl isomerase D antibody (KVAb00908, 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.



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 (KVAb00908, 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 (KVAb00908, 1:2,000). Green, isotype control; red, Peptidylprolyl isomerase D.