10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KD-Validated Anti-Peptidylprolyl Isomerase D Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1692

Specification

KD-Validated Anti-Peptidylprolyl Isomerase D Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	Q08752
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 41 kDa , observed, 36 kDa KDa**
Gene Name	**PPID**
Aliases	**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**
Immunogen	**A synthesized peptide derived from human Cyclophilin 40**

KD-Validated Anti-Peptidylprolyl Isomerase D Rabbit Monoclonal Antibody - Additional Information

Gene ID	**5481**

Other Names
Peptidyl-prolyl cis-trans isomerase D, PPIase D, 5.2.1.8, 40 kDa peptidyl-prolyl cis-trans isomerase, Cyclophilin-40, CYP-40, Cyclophilin-related protein, Rotamase D, PPID (HGNC:9257), CYP40, CYPD

KD-Validated Anti-Peptidylprolyl Isomerase D Rabbit Monoclonal Antibody - Protein Information

Name PPID (HGNC:9257)

Synonyms CYP40, CYPD

Function
PPIase that catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and may therefore assist protein folding (PubMed:11350175, PubMed:<a

href="http://www.uniprot.org/citations/20676357" target="_blank">20676357). Proposed to act as a co- chaperone in HSP90 complexes such as in unligated steroid receptors heterocomplexes. Different co-chaperones seem to compete for association with HSP90 thus establishing distinct HSP90-co-chaperone- receptor complexes with the potential to exert tissue-specific receptor activity control. May have a preference for estrogen receptor complexes and is not found in glucocorticoid receptor complexes. May be involved in cytoplasmic dynein-dependent movement of the receptor from the cytoplasm to the nucleus. May regulate MYB by inhibiting its DNA- binding activity. Involved in regulation of AHR signaling by promoting the formation of the AHR:ARNT dimer; the function is independent of HSP90 but requires the chaperone activity. Involved in regulation of UV radiation-induced apoptosis. Promotes cell viability in anaplastic lymphoma kinase-positive anaplastic large-cell lymphoma (ALK+ ALCL) cell lines.

Cellular Location
Cytoplasm. Nucleus, nucleolus. Nucleus, nucleoplasm

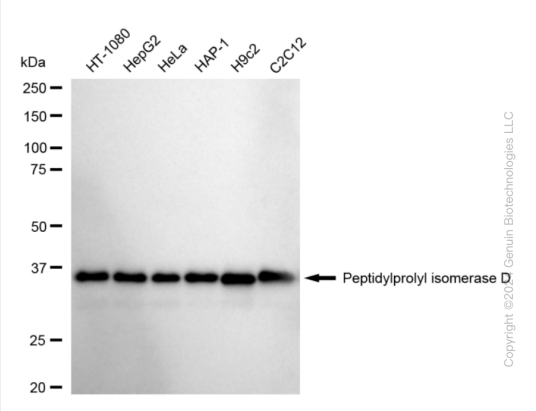
Tissue Location
Widely expressed.

KD-Validated Anti-Peptidylprolyl Isomerase D Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-Peptidylprolyl Isomerase D Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Peptidylprolyl isomerase D antibody (Cat#AGI1692). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Peptidylprolyl isomerase D antibody (Cat#AGI1692, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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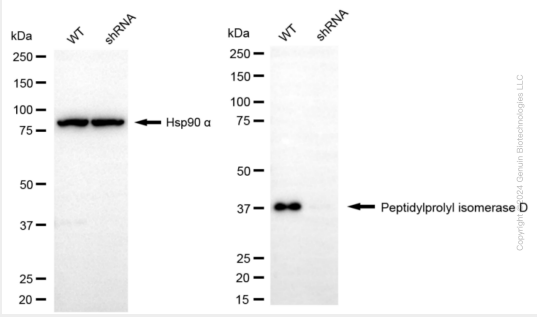
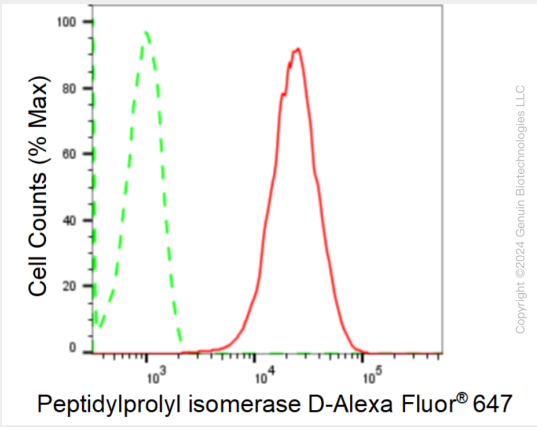
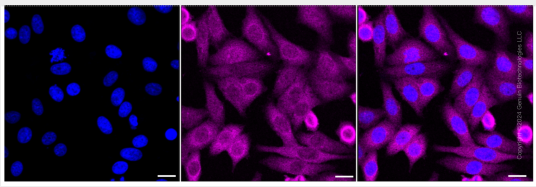


Western blotting analysis using anti-Peptidylprolyl isomerase D antibody (Cat#AGI1692). Peptidylprolyl isomerase D expression in wild type (WT) and Peptidylprolyl isomerase D shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-Peptidylprolyl isomerase D antibody (Cat#AGI1692, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Peptidylprolyl isomerase D expression in HepG2 cells using anti-Peptidylprolyl isomerase D antibody (Cat#AGI1692, 1:2,000). Green, isotype control; red, Peptidylprolyl isomerase D.



Immunocytochemical staining of HepG2 cells with anti-Peptidylprolyl isomerase D antibody (Cat#AGI1692, 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.