Human Cyclophilin 40/PPID antibody

Catalog Number: ATGA0473

PRODUCT INFORMATION

Catalog number
ATGA0473

Clone No.
AT1B8

Product type
Monoclonal Antibody

UnitProt No.
Q08752

NCBI Accession No.
NP_005029

Alternative Names
Peptidyl-prolyl cis-trans isomerase D, Peptidylprolyl isomerase D, 40 kDa peptidyl-prolyl cis-trans isomerase, PPIase D, Cyclophilin-related protein, Rotamase D, CYP-40, CypD, Cyclophilin D

PRODUCT SPECIFICATION

Antibody Host
Mouse

Reacts With
Human

Concentration
1mg/ml (determined by BCA assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen
Recombinant human PPID (1-370aa) purified from E. coli

Isotype
IgG2b kappa

Purification Note
By protein-A affinity chromatography

Application
ELISA, WB, ICC/IF

Usage
The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

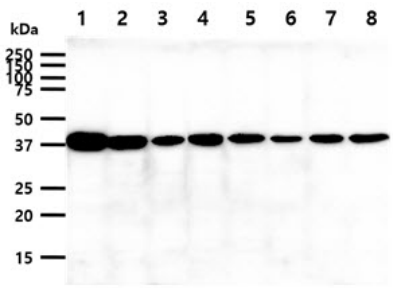
Cyclophilin D (also known as peptidylpropyl isomerase D, PPID) is a member of peptidyl-propyl cis-trans isomerase (PPIase) family, which catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and accelerates the folding of proteins. This protein can bind to the immunosuppressant cyclosporine A and was known that its overexpression suppresses the apoptosis in cancer cells.

General References

MachidaK.,et al.(2006) J. Biol. Chem. 281(20): 14314-20.
Yokoi H.,et al.(1996) Genomics. 35(3): 448-55.

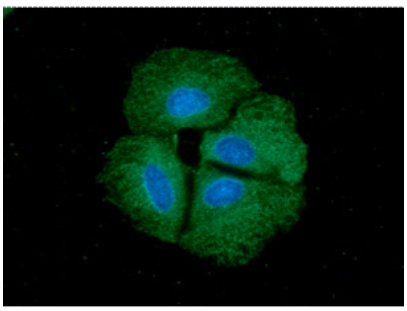
DATA

Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PPID antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: K562 cell lysate
Lane 2.: Jurkat cell lysate
Lane 3.: HeLa cell lysate
Lane 4.: HepG2 cell lysate
Lane 5.: A549 cell lysate
Lane 6.: MCF7 cell lysate
Lane 7.: SK-OV-3 cell lysate
Lane 8.: PC3 cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of PPID in Hep3B cells. The cell was stained with ATGA0473 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).