

Human PDCL3 antibody

Catalog Number: ATGA0333

PRODUCT INFORMATION

Catalog number

ATGA0333

Clone No.

AT8F9

Product type

Monoclonal Antibody

UnitProt No.

Q9H2J4

NCBI Accession No.

NP_076970

Alternative Names

Phosducin-Like protein 3, Phosducin-Like protein 3, HTPHLP, MGC3062, PHLP2A, PHLP3, VIAF, VIAF1

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 PDCL3 (1-239aa) purified from E. coli

Isotype

IgG1 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. Recommended starting dilution is 1:1000.

Human PDCL3 antibody

Catalog Number: ATGA0333

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

PDCL3 (phosducin-like 3), also known as VIAF1 (viral IAP-associated factor 1), VIAF, PHLP3 or HTPHLP, is a widely expressed protein that belongs to the phosducin-like family of proteins. phosducin-like family members associate with the cytosolic chaperonin complex (CCT) and regulate the folding of proteins. Localizing to the cytoplasm, PDCL3 does not appear to play a role in G protein signaling, but participates in the chaperone-assisted folding of proteins, such as beta Tubulin and Actin, that are involved in the regulation of cell cycle progression. More specifically, PDCL3, when associated with CCT, represses the ATPase activity of CCT and ultimately disrupts the folding of the Actin or tubulin substrates.

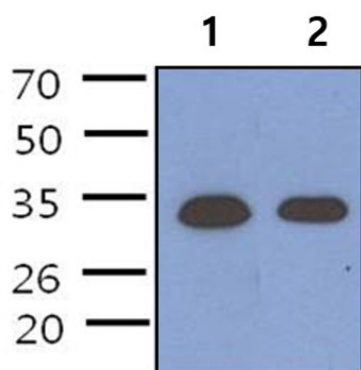
General References

Wilkinson J.C., et al. (2004) Biol. Chem. 279(49):51091-51099.

Hillier L.W., et al. (2005) Nature 434(7034):724-731.

DATA

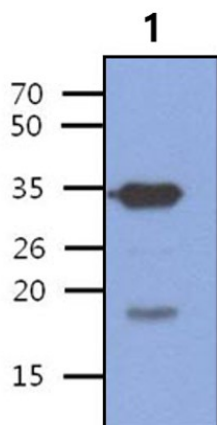
Western blot analysis (WB)



The cell lysates of Jurkat (40ug), A549(40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PDCL3 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: Jurkat cell lysate

Lane 2.: A549 cell lysate



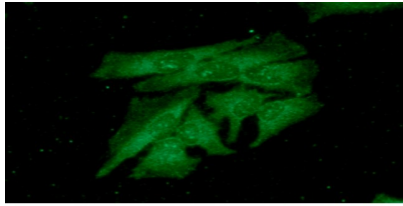
The Recombinant protein (100ng) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PDCL3 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: Recombinant Protein PDCL3 100ng

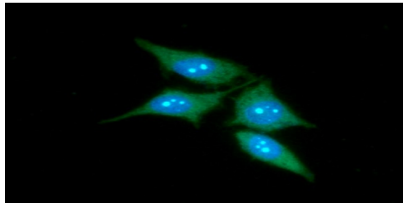
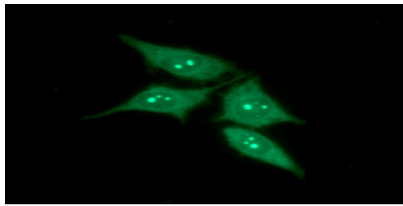
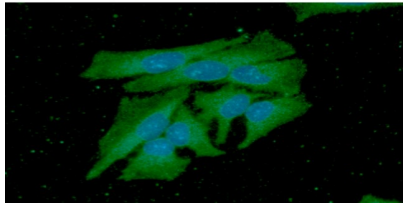
Immunocytochemistry/Immunofluorescence (ICC/IF)

Human PDCL3 antibody

Catalog Number: ATGA0333



ICC/IF analysis of PDCL3 in HeLa cells. The cell was stained with ATGA0333 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).



ICC/IF analysis of PDCL3 in PC3 cells. The cell was stained with ATGA0333 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).