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# **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.



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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**

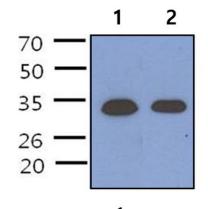
PDCL3 (phosducin-like 3), also known as VIAF1 (viral IAP-associated factor 1), VIAF, PHLP3 or HTPHLP, is a widely expressed protein that belongs to the phosducin-like family of proteins. phosducin-like family members associate with the cytosolic chaperonin complex (CCT) and regulate the folding of proteins. 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.

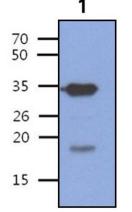
# **DATA**

## 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 antimouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: Jurkat cell lysate Lane 2.: A549 cell lysate



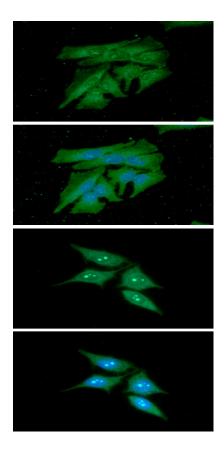
The Recombinant protein (100ng) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PDCL3 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: Recombinant Protein PDCL3 100ng

Immunocytochemistry/Immunofluorescence (ICC/IF)

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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).

