

PDCL2 Antibody

Catalog # ASC11820

Specification

PDCL2 Antibody - Product Information

Application WB, E
Primary Accession Q8N4E4

Other Accession
Reactivity
NP_689614, 51944950
Human, Mouse, Rat

Host Rabbit
Clonality Polyclonal
Isotype IgG

Calculated MW Predicted: 27 kDa

Observed: 25 kDa KDa

Application Notes PDCL2 antibody can be used for detection of PDCL2 by Western blot at 1 - 2 µg/ml.

PDCL2 Antibody - Additional Information

Gene ID 132954

Target/Specificity

PDCL2; PDCL2 antibody is human, mouse and rat reactive. PDCL2 antibody is predicted to not cross-react with other members of the PDCL protein family.

Reconstitution & Storage

PDCL2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.

Precautions

PDCL2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

PDCL2 Antibody - Protein Information

Name PDCL2

Function

Essential for male fertility, spermiogenesis and acrosome formation.

Cellular Location

Endoplasmic reticulum {ECO:0000250|UniProtKB:Q78Y63}

Tissue Location

Testis-specific.

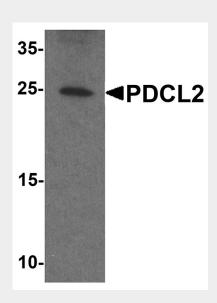
PDCL2 Antibody - Protocols



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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PDCL2 Antibody - Images



Western blot analysis of PDCL2 in rat liver tissue lysate with PDCL2 antibody at 1 µg/ml.

PDCL2 Antibody - Background

Phosducin-like proteins (PhLPs) are a conserved family of proteins with thioredoxin-like domains that were initially identified as modulators of G protein signaling (1,2). PDCL2 is highly homologous to PDCL and shares an N-terminal helix domain and a C-terminal thioredoxin-fold (Trx-fold) domain (3). PDCL2 has been shown to interact with the chaperonin CCT and is essential for cytoskeletal protein function and cell cycle progression (4).

PDCL2 Antibody - References

Miles MF, Barhite S, Sganga M, et al. Phosducin-like protein: an ethanol-responsive potential modulator of guanine nucleotide-binding protein function. Proc. Natl. Acad. Sci. USA 1993; 90:10831-5.

Ruiz-Gomez A, Humrich J, Murga C, et al. Phosphorylation of phosducin and phosducinlike protein by G protein-coupled receptor kinase 2. J. Biol. Chem. 2000; 275:29724-30.

Lou X, Bao R, Zhou CZ, et al. Structure of the thioredoxin-fold domain of human phosducin-like protein 2. Acta Crystallographica 2009; F65:67-70.

Stirling PC, Srayko M, Takhar KS, et al. Functional interaction between phosducin-like protein 2 and cytosolic chaperonin is essential for cytoskeltal protein function and cell cycle progrssion. Mol. Biol. Cell 2007; 18:2336-45.