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

PDCL Antibody
Catalog # ASC11819

Specification

PDCL Antibody - Product Information

Application	**WB**
Primary Accession	Q13371
Other Accession	NP_005379, 88758594
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**Predicted: 33 kDa** **Observed: 35 kDa KDa**
Application Notes	**PDCL antibody can be used for detection of PDCL by Western blot at 1 - 2 µg/ml.**

PDCL Antibody - Additional Information

Gene ID **5082**

Target/Specificity
PDCL; PDCL antibody is human, mouse and rat reactive. At least two isoforms of PDCL are known to exist. PDCL antibody is predicted to not cross-react with other members of the PDCL protein family.

Reconstitution & Storage
PDCL antibody can be stored at 4℃ for three months and -20℃, stable for up to one year.

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

PDCL Antibody - Protein Information

Name PDCL

Synonyms PHLOP1, PhLP1

Function
Acts as a positive regulator of hedgehog signaling and regulates ciliary function. [Isoform 2]: Acts as a negative regulator of heterotrimeric G proteins assembly by trapping the preloaded G beta subunits inside the CCT chaperonin.

Cellular Location
Cell projection, cilium {ECO:0000250|UniProtKB:Q9DBX2}

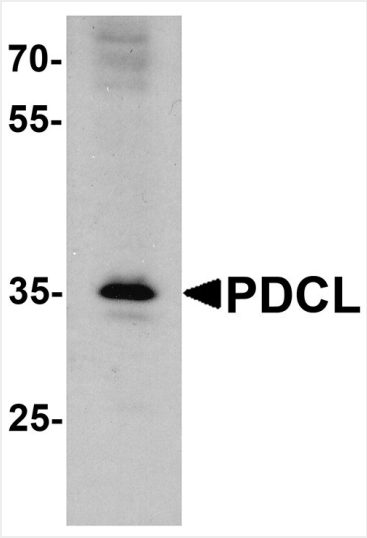
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PDCL Antibody - Protocols

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

PDCL Antibody - Images



Western blot analysis of PDCL in K562 cell lysate with PDCL antibody at 1 µg/ml.

PDCL 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). PDCL is widely expressed in normal human tissues and may participate directly in the regulation of calcium-evoked exocytosis in adrenal medullary chromaffin cells (3). It is an ethanol-responsive modulator of heterotrimeric G proteins (4).

PDCL 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.
Gensse M, Vitale N, Chasserot-Golaz S, et al. Regulation of exocytosis in chromaffin cells by phosducin-like protein, a protein interacting with G protein betagamma-subunits. FEBS Lett. 2000; 480:184-8.
Barhite S, Thibault C, Miles MF, et al. Phosducin-like protein (PhLP), a regulator of G beta gamma function, interacts with the proteasomal protein SUG1. Biochim. Biophys. Acta 1998; 1402: 95-101.