

PDCL Antibody

Catalog # ASC11819

Product Information

Application	WB, E
Primary Accession	Q13371
Other Accession	NP_005379 , 88758594
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	34282
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	PDCL antibody can be used for detection of PDCL by Western blot at 1 - 2 μ g/ml.

Additional Information

Gene ID	5082
Other Names	Phosducin-like protein, PHLP, PDCL, PHLOP1, PhLP1
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°C for three months and -20°C, stable for up to one year.
Precautions	PDCL Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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}

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).

References

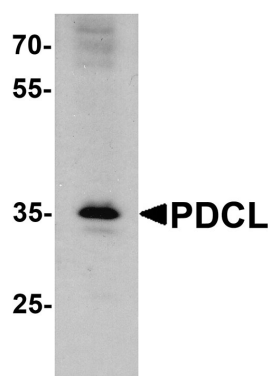
Miles MF, Barhite S, Sganga M, et al. Phosducin-like protein: an ethanol-responsive potential modulator of guanine nucleotide-binding protein function. *Proc. Natl. Acad. Sci. USA* 1993; 90:10831-5.

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.

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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.

Images



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.