

PDCL2 Antibody

Catalog # ASC11820

Product Information

Application	WB, E
Primary Accession	Q8N4E4
Other Accession	NP_689614 , 51944950
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	28071
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	PDCL2 antibody can be used for detection of PDCL2 by Western blot at 1 - 2 μ g/ml.

Additional Information

Gene ID	132954
Other Names	Phosducin-like protein 2, PDCL2
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.

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.

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).

References

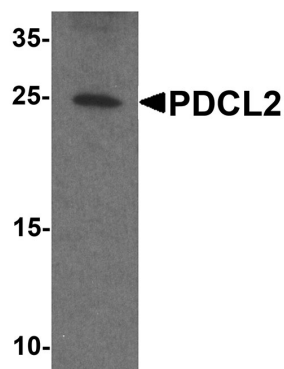
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Ruiz-Gomez A, Humrich J, Murga C, et al. Phosphorylation of phosducin and phosducinlike protein by G protein-coupled receptor kinase 2. *J. Biol. Chem.* 2000; 275:29724-30.

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

Images



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

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