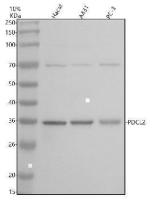
PDCL2 Antibody / Phosducin-like protein 2 Antibody (FY13548)

Catalog No.	Formulation	Size
FY13548	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
UniProt	Q8N4E4
Applications	Western blot: 0.5-1ug/ml
Limitations	This PDCL2 Antibody / Phosducin-like protein 2 Antibody is supplied exclusively for research use.



PDCL2 Antibody by WB in human epithelial cell lines. Western blot analysis using Phosducin-like protein 2 Antibody detects a principal band near 35 kDa in HaCaT (lane 1), A431 (lane 2) and PC-3 (lane 3) whole-cell lysates. This migration is above the calculated molecular weight of approximately 28 kDa but consistent with the 30-35 kDa migration reported in independent antibody validation data. Reduced samples containing 30 ug protein per lane were separated by 10% SDS-PAGE and transferred to nitrocellulose. Primary antibody was applied at 0.5 ug/mL overnight at 4oC, followed by HRP-conjugated secondary antibody and chemiluminescent detection.

Description

PDCL2 Antibody / Phosducin-like protein 2 Antibody detects PDCL2, a member of a family of proteins related to phosducin. Phosducin-family proteins are generally associated with interactions involving other proteins rather than direct catalysis of a metabolic reaction. The family includes members with distinct expression patterns and functional partners, so their biological activities cannot be assumed to be interchangeable. PDCL2 has been described in connection with germ-cell biology and the specialized molecular environment required for reproductive cell development. Compared with some better-characterized phosducin-like proteins, its specific biochemical mechanisms remain incompletely defined.

The formation and maturation of germ cells require extensive remodeling of cellular structures and tight control of gene expression and protein turnover. Proteins enriched during these processes may contribute to assembly or stability of

multiprotein complexes. PDCL2 has attracted attention as part of this broader developmental program, although a precise molecular pathway should not be assigned without direct experimental support. Related phosducin-like proteins can participate in chaperone-associated processes, but such family relationships are not sufficient to prove that PDCL2 has identical partners or functions. Careful distinction between demonstrated interactions and inferred activities is therefore important.

Understanding PDCL2 also requires attention to the regulatory programs that establish specialized cell identities. A protein can be biologically informative because of its restricted expression even when its direct activity has not been completely resolved. Future work may clarify whether PDCL2 participates in protein complex assembly, cellular differentiation, or other processes associated with germ-cell maturation. NSJ Bioreagents offers antibodies associated with this protein target. A PDCL2 Antibody is relevant to understanding phosducin-like protein diversity and the molecular organization of reproductive cell development.

Explore related research targets in our Cell Biology Antibodies collection.

Application Notes

The appropriate working dilution of the PDCL2 Antibody / Phosducin-like protein 2 Antibody should be optimized by the end user.

Immunogen

The PDCL2 Antibody was generated using a synthetic peptide corresponding to a sequence in the middle region of human PDCL2.

Storage

Once reconstituted, refrigerate the PDCL2 Antibody at 4oC for no longer than one month. For extended storage, freeze aliquots at -20oC for up to six months and avoid repeated freeze-thaw cycles.

Alternate Names

PDCL2 antibody, Phosducin-like protein 2 antibody, phosducin like 2 antibody, PDCL2 rabbit polyclonal antibody

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