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- Expressversand

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SANTA CRUZ BIOTECHNOLOGY, INC.

PhLP (h4): 293T Lysate: sc-158847

BACKGROUND

Phosducin-like protein (PhLP, PDCL) is an ethanol-responsive modulator of heterotrimeric G proteins. The protein shares extensive amino acid sequence homology with phosducin (Phd), a phosphoprotein expressed in retina and pineal gland. Both PhLP and Phd regulate G protein signaling by binding to the βγ subunits of G proteins. PhLP interacts with $G_{\beta\gamma}$ via a short C-terminal binding site. Additionally, PhLP acts as a substrate for GRK 2 phosphorylation at the same C-terminal binding site between residues 195 and 218. PhLPs may participate directly in the regulation of calcium-evoked exocytosis in adrenal medullary chromaffin cells. Glycosylated PhLP regulates opioid receptor function in mouse brain.

REFERENCES

1. Miles, M.F., Barhite, S., Sganga, M. and Elliott, M. 1993. Phosducin-like protein: an ethanol-responsive potential modulator of guanine nucleotide-binding protein function. Proc. Natl. Acad. Sci. USA 90: 10831-10835.
2. Schroder, S., Bluml, K., Dees, C. and Lohse, M.J. 1997. Identification of a C-terminal binding site for G protein βγ subunits in phosducin-like protein. FEBS Lett. 401: 243-246.
3. Thibault, C., Feng Wang, J., Charnas, R., Mirel, D., Barhite, S. and Miles, M.F. 1999. Cloning and characterization of the rat and human phosducin-like protein genes: structure, expression and chromosomal localization. Biochim. Biophys. Acta 1444: 346-354.
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5. Gensse, M., Vitale, N., Chasserot-Golaz, S. and Bader, M.F. 2000. Regulation of exocytosis in chromaffin cells by phosducin-like protein, a protein interacting with G protein βγ subunits. FEBS Lett. 480: 184-188.
6. Garzon, J., Rodriguez-Diaz, M., Lopez-Fando, A., Garcia-Espana, A. and Sanchez-Blazquez, P. 2002. Glycosylated phosducin-like protein long regulates opioid receptor function in mouse brain. Neuropharmacology 42: 813-828.

CHROMOSOMAL LOCATION

Genetic locus: PDCL (human) mapping to 9q33.2.

PRODUCT

PhLP (h4): 293T Lysate represents a lysate of human PhLP transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

APPLICATIONS

PhLP (h4): 293T Lysate is suitable as a Western Blotting positive control for human reactive PhLP antibodies. Recommended use: 10-20 µl per lane.

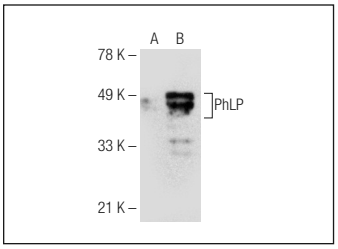
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

PhLP (A-8): sc-376918 is recommended as a positive control antibody for Western Blot analysis of enhanced human PhLP expression in PhLP transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

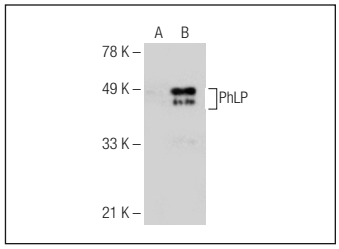
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



PhLP (A-8): sc-376918. Western blot analysis of PhLP expression in non-transfected: sc-117752 (**A**) and human PhLP transfected: sc-158847 (**B**) 293T whole cell lysates.



PhLP (23): sc-293029. Western blot analysis of PhLP expression in non-transfected: sc-117752 (**A**) and human PhLP transfected: sc-158847 (**B**) 293T whole cell lysates.

RESEARCH USE

For research use only, not for use in diagnostic procedures.