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Liprin β 2 (h2): 293T Lysate: sc-172761

BACKGROUND

Liprins interact with members of the leukocyte common antigen-related (LAR) family of transmembrane protein tyrosine phosphatases, which are implicated in axon guidance and mammary gland development. Liprins are multivalent proteins that form complex structures and act as scaffolds for the recruitment and anchoring of LAR phosphatases. Based on sequence similarities and binding characteristics, liprins are subdivided into α -type and β -type liprins. Both α - and β -liprins homodimerize via their N-terminal, coiled coil regions. Liprin β 2 is expressed strongly in liver, kidney, intestine, heart, lung and testis, however it can be detected at low levels in brain and thymus. Four isoforms exist for Liprin β 2 due to splicing variants. Isoform 1 represents the full length protein. Isoform 2 lacks amino acids 459-469. Isoform 3 contains an alternative sequence for amino acids 127-200 and is truncated at amino acid 200. Isoform 4 lacks amino acids 459-469 and contains an alternative sequence for amino acids 877-882.

REFERENCES

- Serra-Pagès, C., Medley, Q.G., Tang, M., Hart, A. and Streuli, M. 1998. Liprins, a family of LAR transmembrane protein-tyrosine phosphatase-interacting proteins. *J. Biol. Chem.* 273: 15611-15620.
- Kriajevska, M., Fischer-Larsen, M., Moertz, E., Vorm, O., Tulchinsky, E., Grigorian, M., Ambartsumian, N. and Lukanidin, E. 2002. Liprin β 1, a member of the family of LAR transmembrane tyrosine phosphatase-interacting proteins, is a new target for the metastasis-associated protein S100A4 (Mts1). *J. Biol. Chem.* 277: 5229-5235.
- Heidenblad, M., Jonson, T., Mahlamäki, E.H., Gorunova, L., Karhu, R., Johansson, B. and Höglund, M. 2002. Detailed genomic mapping and expression analyses of 12p amplifications in pancreatic carcinomas reveal a 3.5-Mb target region for amplification. *Genes Chromosomes Cancer* 34: 211-223.
- Katoh, M. and Katoh, M. 2003. Identification and characterization of human PPFIA4 gene in silico. *Int. J. Mol. Med.* 12: 1009-1014.

CHROMOSOMAL LOCATION

Genetic locus: PPFIBP2 (human) mapping to 11p15.4.

PRODUCT

Liprin β 2 (h2): 293T Lysate represents a lysate of human Liprin β 2 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

Liprin β 2 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive Liprin β 2 antibodies. Recommended use: 10-20 μ l per lane.

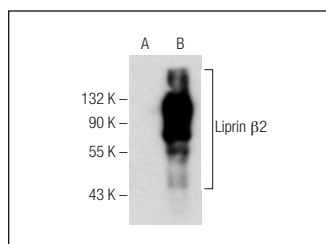
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Liprin β 2 (A-6): sc-376493 is recommended as a positive control antibody for Western Blot analysis of enhanced human Liprin β 2 expression in Liprin β 2 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

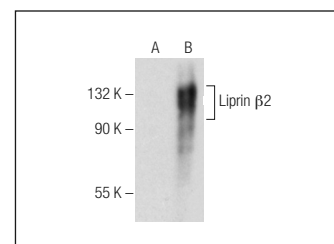
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ 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



Liprin β 2 (A-6): sc-376493. Western blot analysis of Liprin β 2 expression in non-transfected: sc-117752 (A) and human Liprin β 2 transfected: sc-172761 (B) 293T whole cell lysates.



Liprin β 2 (H-6): sc-376444. Western blot analysis of Liprin β 2 expression in non-transfected: sc-117752 (A) and human Liprin β 2 transfected: sc-172761 (B) 293T whole cell lysates.

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.

RESEARCH USE

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

PROTOCOLS

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