Liprin β2 (H-6): sc-376444



The Power to Question

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 similarites 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 $\beta 2$ 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 $\beta 2$ due to splicing variants. Isoform 1 respresents the full length protein. Isoform 2 lacks amino acids 459-469. Isoform 3 contains an alternative sequence for amino acids 459-469 and contains an alternative sequence for amino acids 877-882.

REFERENCES

- Serra-Pagès, C., et al. 1998. Liprins, a family of LAR transmembrane protein-tyrosine phosphatase-interacting proteins. J. Biol. Chem. 273: 15611-15620.
- Kriajevska, M., et al. 2002. Liprin β1, 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., et al. 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., et al. 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.

SOURCE

Liprin $\beta2$ (H-6) is a mouse monoclonal antibody raised against amino acids 186-392 mapping within an internal region of Liprin $\beta2$ of human origin.

PRODUCT

Each vial contains 200 μ g lgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

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

APPLICATIONS

Liprin $\beta2$ (H-6) is recommended for detection of Liprin $\beta2$ of human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Liprin $\beta 2$ siRNA (h): sc-62563, Liprin $\beta 2$ shRNA Plasmid (h): sc-62563-SH and Liprin $\beta 2$ shRNA (h) Lentiviral Particles: sc-62563-V.

Molecular Weight of Liprin β2 isoform 1: 99 kDa.

Molecular Weight of Liprin β2 isoform 2: 98 kDa.

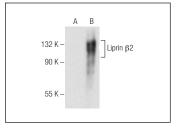
Molecular Weight of Liprin β2 isoform 3: 22 kDa.

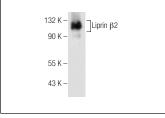
Positive Controls: K-562 whole cell lysate: sc-2203, JAR cell lysate: sc-2276 or Liprin β 2 (h2): 293T Lysate: sc-172761.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-lgG κ BP-FITC: sc-516140 or m-lgG κ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz[®] Mounting Medium: sc-24941 or UltraCruz[®] Hard-set Mounting Medium: sc-359850.

DATA





Liprin $\beta 2$ (H-6): sc-376444. Western blot analysis of Liprin $\beta 2$ expression in non-transfected: sc-117752 (**A**) and human Liprin $\beta 2$ transfected: sc-172761 (**B**) 293T whole cell I wsates.

Liprin $\beta2$ (H-6): sc-376444. Western blot analysis of Liprin $\beta2$ expression in K-562 whole cell lysate.

RESEARCH USE

For research use only, not for use in diagnostic procedures