Liprin α1 (F-6): sc-271664



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 similarities and binding characteristics, liprins are subdivided into α and β liprins. Both α and β liprins homodimerize via their N-terminal, coiled-coil regions. Liprin $\alpha 1$ is a ubiquitously expressed protein that interacts with the tumor suppressor ING4 to regulate cell migration and possibly prevent metastasis. The interaction between LAR and Liprin $\alpha 1$ can be weakened by treatment of Liprin $\alpha 1$ with calf intestinal phosphatase.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PPFIA1 (human) mapping to 11q13.3; Ppfia1 (mouse) mapping to 7 F5.

SOURCE

Liprin α 1 (F-6) is a mouse monoclonal antibody raised against amino acids 475-563 mapping within an internal region of Liprin α 1 of human origin.

PRODUCT

Each vial contains 200 μg lgG_{2b} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-271664 X, 200 μg /0.1 ml.

APPLICATIONS

Liprin α 1 (F-6) s recommended for detection of Liprin α 1 of mouse, rat and 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 α 1 siRNA (h): sc-72330, Liprin α 1 siRNA (m): sc-72331, Liprin α 1 shRNA Plasmid (h): sc-72330-SH, Liprin α 1 shRNA Plasmid (m): sc-72331-SH, Liprin α 1 shRNA (h) Lentiviral Particles: sc-72330-V and Liprin α 1 shRNA (m) Lentiviral Particles: sc-72331-V.

Liprin $\alpha 1$ (F-6) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

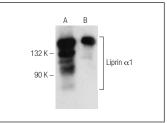
Molecular Weight of Liprin α 1: 134-136 kDa.

Positive Controls: BT-20 cell lysate: sc-2223 or MDA-MB-468 cell lysate: sc-2282.

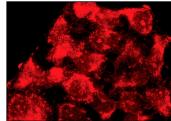
RECOMMENDED SUPPORT REAGENTS

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 α 1 (F-6): sc-271664. Western blot analysis of Liprin α 1 expression in MDA-MB-468 (**A**) and 293T (**B**) whole cell lysates.



Liprin α 1 (F-6): sc-271664. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization.

STORAGE

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

RESEARCH USE

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

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