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SANTA CRUZ BIOTECHNOLOGY, INC.

Adducin α (m): 293T Lysate: sc-118250

BACKGROUND

Adducins are a family of cytoskeleton proteins encoded by three genes (α, β, and γ). Adducin is a protein associated with the inner leaflet of the plasma membrane and is one of the proteins localized at the spectrin-Actin junction of the membrane skeleton. The cortical Actin cytoskeletal network is lost during apoptosis and Adducins are central in the cortical Actin network organization. Adducin α is a cytoskeletal protein involved with sodium-pump activity in the renal tubule and is associated with hypertension. The expression of Adducin α and Adducin γ is ubiquitous in contrast to the restricted expression of Adducin β. Adducin β is expressed at high levels in brain and hematopoietic tissues, such as bone marrow in humans and spleen in mice.

REFERENCES

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6. van De Water, B., Tijdens, I.B., Verbrugge, A., Huigsloot, M., Dihal, A.A., Stevens, J.L., Jaken, S. and Mulder, G.J. 2000. Cleavage of the Actin-capping protein Adducin α at DDSD633A by caspase-3 is preceded by its phosphorylation on Serine 726 in cisplatin-induced apoptosis of renal epithelial cells. J. Biol. Chem. 275: 25805-25813.

CHROMOSOMAL LOCATION

Genetic locus: Add1 (mouse) mapping to 5 B2.

PRODUCT

Adducin α (m): 293T Lysate represents a lysate of mouse Adducin α 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.

APPLICATIONS

Adducin α (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Adducin α antibodies. Recommended use: 10-20 µl per lane.

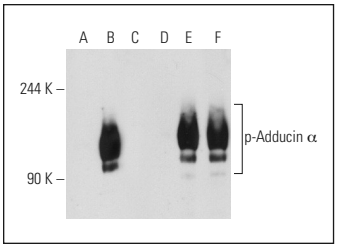
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Adducin α (4D1): sc-33633 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse Adducin α expression in Adducin α 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



Western blot analysis of Adducin α phosphorylation in non-transfected: sc-117752 (**A**,**D**), untreated mouse Adducin α transfected: sc-118250 (**B**,**E**) and lambda protein phosphatase treated mouse Adducin α transfected: sc-118250 (**C**,**F**) 293T whole cell lysates. Antibodies tested include p-Adducin α (Ser 726): sc-101627 (**A**,**B**,**C**) and Adducin α (4D1): sc-33633 (**D**,**E**,**F**).

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.