

Centaurin $\alpha 2$ (h): 293T Lysate: sc-115111

BACKGROUND

The ADP-ribosylation factor (ARF) family of small GTP-binding proteins are involved in vesicular transport regulation and in controlling cytoskeletal organization and cell adhesion. The Centaurin GTPase-activating protein family comprise a subset of ARF regulatory molecules that transduce PI 3-kinase activation into coordinated control of ARF-dependent pathways. This family includes ASAP1, ACAP1, ACAP2, AGAP1, ARAP1, ARAP2, Centaurin $\alpha 1$, Centaurin $\gamma 3$ and the recently discovered Centaurin $\alpha 2$. Expressed in a wide variety of tissues such as fat, heart and skeletal muscle, Centaurin $\alpha 2$ is thought to negatively regulate ARF-mediated actin rearrangement by binding activated PI 3-kinase. Although the exact function of Centaurin $\alpha 2$ is not yet known, its high sequence similarity with Centaurin $\alpha 1$ suggests that it may also act as an ARF6 GTPase.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CENTA2 (human) mapping to 17q11.2.

PRODUCT

Centaurin $\alpha 2$ (h): 293T Lysate represents a lysate of human Centaurin $\alpha 2$ transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

Centaurin $\alpha 2$ (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive Centaurin $\alpha 2$ antibodies. Recommended use: 10-20 μ l per lane.

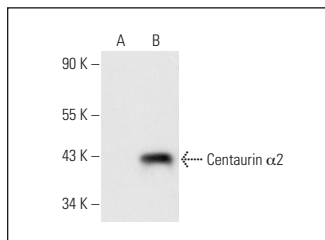
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Centaurin $\alpha 2$ (F-4): sc-514510 is recommended as a positive control antibody for Western Blot analysis of enhanced human Centaurin $\alpha 2$ expression in Centaurin $\alpha 2$ 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



Centaurin $\alpha 2$ (F-4): sc-514510. Western blot analysis of Centaurin $\alpha 2$ expression in non-transfected: sc-117752 (A) and human Centaurin $\alpha 2$ transfected: sc-115111 (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.