SANTA CRUZ BIOTECHNOLOGY, INC.

Chibby (h): 293T Lysate: sc-369175

BACKGROUND

Chibby, also known as Cytosolic leucine-rich protein or PIGEA-14, is a 126 amino acid highly conserved protein that inhibits β-catenin-mediated transcriptional activation by competing with LEF-1 to bind β-catenin. Chibby may also play a role in the regulation of the intracellular location of Polycystin-2 and other intracellular proteins. Acting as a homodimer, Chibby is subcellularly localized to the nucleus and Golgi apparatus within the *trans*-Golgi network. Interaction with 14-3-3 results in the sequestration of Chibby to the cytoplasm and the formation of a stable complex with β-catenin, thereby facilitating nuclear export of β-catenin. Though widely expressed, Chibby is found at highest levels in skeletal muscle, heart, placenta and kidney. Down-regulation of Chibby is observed in thyroid and metastatic uterine tumors, suggesting that the gene encoding Chibby may function as a tumor suppressor.

REFERENCES

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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.

CHROMOSOMAL LOCATION

Genetic locus: CBY1 (human) mapping to 22q13.1.

PRODUCT

Chibby (h): 293T Lysate represents a lysate of human Chibby transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

Chibby (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive Chibby antibodies. Recommended use: 10-20 µl per lane.

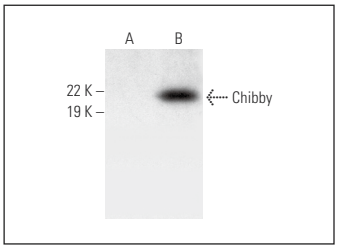
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Chibby (G-4): sc-393327 is recommended as a positive control antibody for Western Blot analysis of enhanced human Chibby expression in Chibby 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



Chibby (G-4): sc-393327. Western blot analysis of Chibby expression in non-transfected: sc-117752 (**A**) and human Chibby transfected: sc-369175 (**B**) 293T whole cell lysates.

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.