



Tastin (h): 293T Lysate: sc-115239

BACKGROUND

Tastin (trophinin associated protein), also known as TROAP, is essential for centrosome integrity and proper bipolar organization of spindle assembly during mitosis. It is expressed at high levels in bone marrow, testis, and thymus, localizing to the cytoplasm and associating with microtubules, the mitotic spindle and centrosomes. Tastin expression peaks in the cell during the G₂/M phase and declines after the cell divides. Cells overexpressing Tastin form monopolar spindles, while cells depleted of Tastin form multipolar spindles. Tastin binds directly to the Dynein light chain (Dynein LC or Tctex-1) and γ Tubulin, further supporting its role in spindle assembly and cell proliferation. In addition, Tastin can interact with and form a complex with Bystin and Trophinin, facilitating cell adhesion and, in particular, embryo implantation.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TROAP (human) mapping to 12q13.12.

PRODUCT

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

APPLICATIONS

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

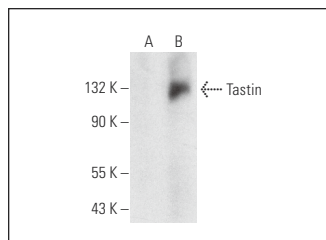
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Tastin (D-2): sc-271715 is recommended as a positive control antibody for Western Blot analysis of enhanced human Tastin expression in Tastin transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

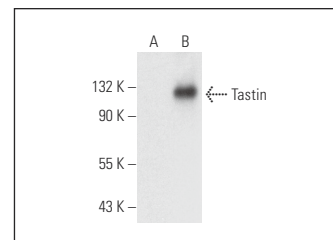
RECOMMENDED SUPPORT REAGENTS

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



Tastin (D-2): sc-271715. Western blot analysis of Tastin expression in non-transfected: sc-117752 (A) and human Tastin transfected: sc-115239 (B) 293T whole cell lysates.



Tastin (F-12): sc-271716. Western blot analysis of Tastin expression in non-transfected: sc-117752 (A) and human Tastin transfected: sc-115239 (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.