

# NET1 (h2): 293T Lysate: sc-116463

## BACKGROUND

Numerous cellular functions, such as proliferation, differentiation, apoptosis, vesicular trafficking, nuclear transport and cytoskeletal organization, are controlled by GTPases. It has become increasingly clear that GTPases act in cascades in which their activities are linked by GTPase-activating proteins (GAPs) and guanine nucleotide exchange factors (GEFs). Researchers looking for new epithelial cell-specific oncogenes, using a highly efficient cDNA expression cloning system, have isolated the Ost oncogene from rat osteosarcoma cells. The Ost proto-oncogene protein contains DH and PH domains, catalyzes guanine nucleotide exchange on Rho A and Cdc42, and interacts specifically with the GTP-bound form of Rac1. The related NET1 protein also contains a DH domain and is ubiquitously expressed in a variety of tissues. Overexpression of NET1 in NIH/3T3 cells results in altered growth properties and tumorigenesis when injected into nude mice.

## REFERENCES

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3. Mayer, B.J., et al. 1993. A putative modular domain present in diverse signaling proteins. *Cell* 73: 629-630.
4. Boguski, M.S. and McCormick, F. 1993. Proteins regulating Ras and its relatives. *Nature* 366: 643-654.
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## CHROMOSOMAL LOCATION

Genetic locus: NET1 (human) mapping to 10p15.1.

## PRODUCT

NET1 (h2): 293T Lysate represents a lysate of human NET1 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

NET1 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive NET1 antibodies. Recommended use: 10-20 µl per lane.

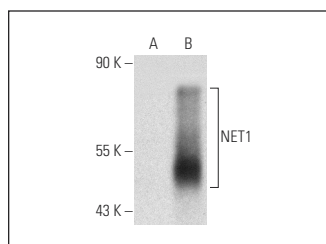
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

NET1 (G-4): sc-271941 is recommended as a positive control antibody for Western Blot analysis of enhanced human NET1 expression in NET1 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



NET1 (G-4): sc-271941. Western blot analysis of NET1 expression in non-transfected: sc-117752 (A) and human NET1 transfected: sc-116463 (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](http://www.scbt.com) for detailed protocols and support products.