

NET1 (H-70): sc-50392

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 RhoA 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.

CHROMOSOMAL LOCATION

Genetic locus: NET1 (human) mapping to 10p15.1; Net1 (mouse) mapping to 13 A1.

SOURCE

NET1 (H-70) is a rabbit polyclonal antibody raised against amino acids 106-175 mapping within an internal region of NET1 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

NET1 (H-70) is recommended for detection of Rho-specific GEF NET1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

NET1 (H-70) is also recommended for detection of Rho-specific GEF NET1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for NET1 siRNA (h): sc-41726, NET1 siRNA (m): sc-41727, NET1 shRNA Plasmid (h): sc-41726-SH, NET1 shRNA Plasmid (m): sc-41727-SH, NET1 shRNA (h) Lentiviral Particles: sc-41726-V and NET1 shRNA (m) Lentiviral Particles: sc-41727-V.

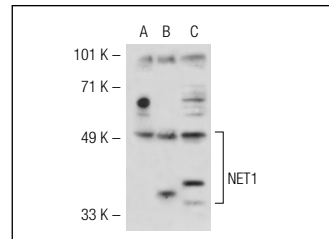
Molecular Weight of NET1: 54 kDa.

Positive Controls: NET1 (h): 293T Lysate: sc-113505 or HeLa whole cell lysate: sc-2200.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



NET1 (H-70): sc-50392. Western blot analysis of NET1 expression in non-transfected 293T: sc-117752 (A), human NET1 transfected 293T: sc-113505 (B) and HeLa (C) whole cell lysates.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

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Try **NET1 (G-4): sc-271941**, our highly recommended monoclonal alternative to NET1 (H-70).