

NARG1 (H-46): sc-135316

BACKGROUND

NARG1 (NMDA (N-methyl-d-aspartate) receptor-regulated gene 1), also known as NATH (N-terminal acetyltransferase), TBDN100 (tubedown-1) or Ga19 (gastric cancer antigen Ga19), is a cytoplasmic protein that contains eight TPR repeats. NARG1 is expressed at high levels in dividing tissues such as bone marrow, testis and embryonal brain and it is overexpressed in papillary thyroid carcinomas. NARG1 interacts with ARD1 or ARD2 forming a complex that exhibits N-terminal (α) acetyltransferase activity. The complex interacts with ribosomal subunits functioning in cotranslational acetylation. During apoptosis, both NARG1 and ARD1 are cleaved by caspases which results in decreased acetyltransferase activity. Knockdown of NARG1 in HeLa cells leads to apoptosis, indicating that properly functioning NARG1 is essential for cell viability. In addition, this suggests NARG1 as a potential target in cancer therapy.

CHROMOSOMAL LOCATION

Genetic locus: NAA15 (human) mapping to 4q31.1; Narg1 (mouse) mapping to 3 C.

SOURCE

NARG1 (H-46) is a rabbit polyclonal antibody raised against amino acids 325-370 mapping within an internal region of NARG1 of human origin.

PRODUCT

Each vial contains 200 μ g 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.

APPLICATIONS

NARG1 (H-46) is recommended for detection of NARG1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

NARG1 (H-46) is also recommended for detection of NARG1 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for NARG1 siRNA (h): sc-89163, NARG1 siRNA (m): sc-149832, NARG1 shRNA Plasmid (h): sc-89163-SH, NARG1 shRNA Plasmid (m): sc-149832-SH, NARG1 shRNA (h) Lentiviral Particles: sc-89163-V and NARG1 shRNA (m) Lentiviral Particles: sc-149832-V.

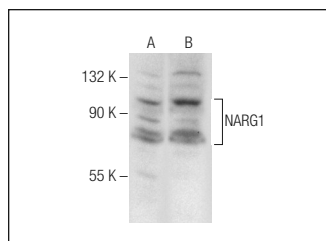
Molecular Weight of NARG1: 100 kDa.

Positive Controls: THP-1 cell lysate: sc-2238 or K-562 whole cell lysate: sc-2203.

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



NARG1 (H-46): sc-135316. Western blot analysis of NARG1 expression in THP-1 (A) and K-562 (B) whole cell lysates.

RESEARCH USE

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

PROTOCOLS

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

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Try **NARG1 (D-7): sc-365931**, our highly recommended monoclonal alternative to NARG1 (H-46).