

NACAD (N-16): sc-248032

BACKGROUND

NACAD (NAC α domain containing) is a 1,562 amino acid protein that prevents non-secretory polypeptides from targeting the endoplasmic reticulum. Localizing to both the cytoplasm and nucleus, NACAD belongs to the NAC- α family and contains one NAC-A/B (NAC- α/β) domain. The gene encoding NACAD maps to human chromosome 7, which houses over 1,000 genes and comprises nearly 5% of the human genome. Chromosome 7 has been linked to osteogenesis imperfecta, Pendred syndrome, lissencephaly, citrullinemia and Shwachman-Diamond syndrome. The deletion of a portion of the q arm of chromosome 7 is associated with Williams-Beuren syndrome, a condition characterized by mild mental retardation, an unusual comfort and friendliness with strangers and an elfin appearance. Deletions of portions of the q arm of chromosome 7 are also seen in a number of myeloid disorders including cases of acute myelogenous leukemia and myelodysplasia.

CHROMOSOMAL LOCATION

Genetic locus: NACAD (human) mapping to 7p13; Nacad (mouse) mapping to 11 A1.

SOURCE

NACAD (N-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of NACAD 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.

Blocking peptide available for competition studies, sc-248032 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

NACAD (N-16) is recommended for detection of NACAD 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).

NACAD (N-16) is also recommended for detection of NACAD in additional species, including bovine.

Suitable for use as control antibody for NACAD siRNA (h): sc-89561, NACAD siRNA (m): sc-149795, NACAD shRNA Plasmid (h): sc-89561-SH, NACAD shRNA Plasmid (m): sc-149795-SH, NACAD shRNA (h) Lentiviral Particles: sc-89561-V and NACAD shRNA (m) Lentiviral Particles: sc-149795-V.

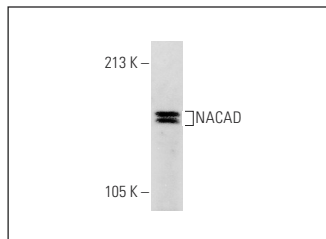
Molecular Weight of NACAD: 161 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



NACAD (N-16): sc-248032. Western blot analysis of NACAD expression in NIH/3T3 whole cell lysate.

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.



Try **NACAD (H-4): sc-515113**, our highly recommended monoclonal alternative to NACAD (N-16).