C-Nap1 (N-17): sc-74351



The Power to Question

BACKGROUND

C-Nap1 (centrosome-associated protein), also known as centrosomal Nek2-associated protein 1 or CEP2 (centrosomal protein 2), is localized to the cyto-plasm and exists in every human cell. C-Nap1 is expressed as 3 isoforms and is a 2,442 amino acid protein. C-Nap1 is a centrosomal protein found at the tips of parental centrioles and in basal bodies of cellular projections, such as cillia. C-Nap1 is associated with the interphase stage of the cell cycle, during which C-Nap1 functions in the cohesion of centrioles. The phosphorylation of C-Nap1 plays a role in regulating whether the centrosomes are associating or dissociating. Nek2 phosphorylates the C-terminal end of C-Nap1 during mitosis, an event which is thought to play a role in the dissociation of centrosomes. C-Nap1 reacumulates in centrosomes at the end of cellular division. Some autoimmune diseases are characterized by the production of antibodies against C-Nap1, suggesting that C-Nap1 may be involved in the pathogenesis of autoimmune diseases.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CEP250 (human) mapping to 20q11.22; Cep250 (mouse) mapping to 2 H1.

SOURCE

C-Nap1 (N-17) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the N-terminus of C-Nap1 of human origin.

PRODUCT

Each vial contains 100 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-74351 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

C-Nap1 (N-17) is recommended for detection of C-Nap1 of mouse 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).

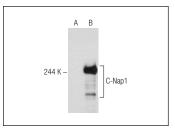
C-Nap1 (N-17) is also recommended for detection of C-Nap1 in additional species, including canine.

Suitable for use as control antibody for C-Nap1 siRNA (h): sc-72669, C-Nap1 siRNA (m): sc-72670, C-Nap1 shRNA Plasmid (h): sc-72669-SH, C-Nap1 shRNA Plasmid (m): sc-72670-SH, C-Nap1 shRNA (h) Lentiviral Particles: sc-72669-V and C-Nap1 shRNA (m) Lentiviral Particles: sc-72670-V.

Molecular Weight of C-Nap1: 250 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204 or C-Nap1 (h): 293T Lysate: sc-372175.

DATA



C-Nap1 (N-17): sc-74351. Western blot analysis of C-Nap1 expression in non-transfected: sc-117752 (A) and human C-Nap1 transfected: sc-372175 (B) 293T whole cell lysates.

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.

PROTOCOLS

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



Try **C-Nap1 (F-7): sc-390540**, our highly recommended monoclonal alternative to C-Nap1 (N-17).

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