SANTA CRUZ BIOTECHNOLOGY, INC.

Nup37 (N-13): sc-109348

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The Power to Question

BACKGROUND

Nup37 is a 326 amino acid nuclear protein that contains four WD repeats and is a component of the Nup107-160 subcomplex of the nuclear pore complex (NPC). Aside from Nup37, the Nup107-160 subcomplex includes Nup160, Nup133, Nup107, Nup98, Pericentrin 1, Nup43, Seh1 and SEC13. The Nup107-160 subcomplex is required for the assembly of a functional NPC, and is also required for normal kinetochore microtubule attachment, mitotic progression and chromosome segregation. The gene that encodes Nup37 consists of around 44,392 bases and maps to human chromosome 12q23.2. Encoding over 1,100 genes, chromosome 12 comprises approximately 4.5% of the human genome. Chromosome 12 is associated with a variety of diseases and afflictions, including hypochondrogenesis, achondrogenesis, Kniest dysplasia, Noonan syndrome and trisomy 12p, which causes facial developmental defects and seizure disorders.

REFERENCES

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7. Zuccolo, M., et al. 2007. The human Nup107-160 nuclear pore subcomplex contributes to proper kinetochore functions. EMBO J. 26: 1853-1864.
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CHROMOSOMAL LOCATION

Genetic locus: NUP37 (human) mapping to 12q23.2; Nup37 (mouse) mapping to 10 C1.

SOURCE

Nup37 (N-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Nup37 of human origin.

STORAGE

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

PRODUCT

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

Blocking peptide available for competition studies, sc-109348 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Nup37 (N-13) is recommended for detection of Nup37 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

Nup37 (N-13) is also recommended for detection of Nup37 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Nup37 siRNA (h): sc-95888, Nup37 siRNA (m): sc-150123, Nup37 shRNA Plasmid (h): sc-95888-SH, Nup37 shRNA Plasmid (m): sc-150123-SH, Nup37 shRNA (h) Lentiviral Particles: sc-95888-V and Nup37 shRNA (m) Lentiviral Particles: sc-150123-V.

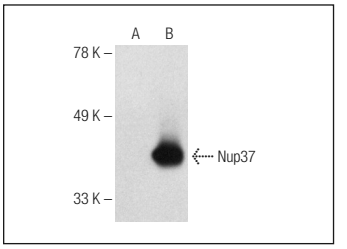
Molecular Weight of Nup37: 37 kDa.

Positive Controls: Nup37(h): 293T Lysate: sc-122175.

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) 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



Nup37 (N-13): sc-109348. Western blot analysis of Nup37 expression in non-transfected: sc-117752 (**A**) and mouse Nup37 transfected: sc-122175 (**B**) 293T whole cell lysates.

RESEARCH USE

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