

Nolz-1 (N-12): sc-168776

BACKGROUND

Nolz-1, also known as ZNF503 (zinc-finger protein 503), is a 646 amino acid nuclear protein that is thought to function as a transcriptional repressor and is highly expressed in developing striatum. Additionally, Nolz-1 has been suggested to play a role in neural differentiation. A member of the Elbow/Noc family, Nolz-1 exists as three alternatively spliced isoforms and contains one C₂H₂-type zinc finger. The gene encoding Nolz-1 maps to human chromosome 10, which makes up approximately 4.5% of total DNA in cells and encodes nearly 1,200 genes. Several protein-coding genes, including those that encode for chemokines, cadherins, excision repair proteins, early growth response factors (Egrs) and fibroblast growth receptors (FGFRs), are located on chromosome 10. Defects in some of the genes that map to chromosome 10 are associated with Charcot-Marie Tooth disease, Jackson-Weiss syndrome, Usher syndrome, nonsyndromic deafness, Wolman's syndrome, Cowden syndrome, multiple endocrine neoplasia type 2 and porphyria.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ZNF503 (human) mapping to 10q22.2; Zfp503 (mouse) mapping to 14 A3.

SOURCE

Nolz-1 (N-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of Nolz-1 of human origin.

RESEARCH USE

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

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-168776 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Nolz-1 (N-12) is recommended for detection of Nolz-1 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).

Suitable for use as control antibody for Nolz-1 siRNA (h): sc-90842, Nolz-1 siRNA (m): sc-150028, Nolz-1 shRNA Plasmid (h): sc-90842-SH, Nolz-1 shRNA Plasmid (m): sc-150028-SH, Nolz-1 shRNA (h) Lentiviral Particles: sc-90842-V and Nolz-1 shRNA (m) Lentiviral Particles: sc-150028-V.

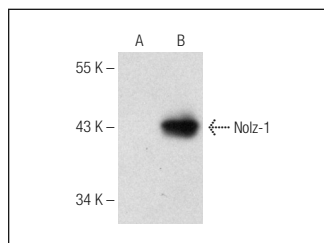
Molecular Weight of Nolz-1 isoforms: 62/59/29 kDa.

Positive Controls: Nolz-1 (h): 293T Lysate: sc-122093.

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



Nolz-1 (N-12): sc-168776. Western blot analysis of Nolz-1 expression in non-transfected: sc-117752 (A) and mouse Nolz-1 transfected: sc-122093 (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.