SANTA CRUZ BIOTECHNOLOGY, INC.

NOL10 (T-18): sc-248097

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

NOL10 (nucleolar protein 10) is a 688 amino acid nuclear protein that belongs to the WD repeat NOL10/ENP2 family. NOL10 contains five WD repeats and exists as three alternatively spliced isoforms. The gene that encodes NOL10 consists of about 119,221 bases and maps to human chromosome 2p25.1. Consisting of 237 million bases and encoding over 1,400 genes, chromosome 2 makes up approximately 8% of the human genome. A number of genetic diseases are linked to genes on chromosome 2. Harlequin icthyosis, a rare and morbid skin deformity, is associated with mutations in the ABCA12 gene. The lipid metabolic disorder sitosterolemia is associated with ABCG5 and ABCG8. An extremely rare recessive genetic disorder, Alström syndrome, is due to mutations in the ALMS1 gene.

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CHROMOSOMAL LOCATION

Genetic locus: NOL10 (human) mapping to 2p25.1; Nol10 (mouse) mapping to 12 A1.1.

SOURCE

NOL10 (T-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of NOL10 of human origin.

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-248097 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

NOL10 (T-18) is recommended for detection of NOL10 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); non cross-reactive with other NOL family members.

NOL10 (T-18) is also recommended for detection of NOL10 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for NOL10 siRNA (h): sc-94820, NOL10 siRNA (m): sc-150021, NOL10 shRNA Plasmid (h): sc-94820-SH, NOL10 shRNA Plasmid (m): sc-150021-SH, NOL10 shRNA (h) Lentiviral Particles: sc-94820-V and NOL10 shRNA (m) Lentiviral Particles: sc-150021-V.

Molecular Weight of NOL10 isoforms: 80/75/22 kDa.

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.

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.