SANTA CRUZ BIOTECHNOLOGY, INC.

NUT (T-13): sc-165145



The Power to Question

BACKGROUND

NUT (nuclear protein in testis), also known as C15orf55, is a 1,132 amino acid protein that is specifically expressed in testis. Belonging to the FAM22 family, NUT shuttles between nucleus and cytoplasm via a leptomycin-sensitive pathway. It is suggested that the translocation of the NUT gene is the cause of nuclear protein in testis midline carcinomas (NMC). NMCs are highly aggressive carcinomas typically arising in midline structures in young individuals. These carcinomas are characterized by the presence of a chromosomal rearrangement of the NUT gene on chromosome 15 (15q14), which results in a chromosome 19p13. Endogenous BRD-NUT fusion proteins contribute to carcinogenesis by associating with chromatin and interfering with epithelial differentiation.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: C15orf55 (human) mapping to 15q14.

SOURCE

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

PRODUCT

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

Blocking peptide available for competition studies, sc-165145 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

NUT (T-13) is recommended for detection of NUT of 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).

Suitable for use as control antibody for NUT siRNA (h): sc-90033, NUT shRNA Plasmid (h): sc-90033-SH and NUT shRNA (h) Lentiviral Particles: sc-90033-V.

Molecular Weight of NUT: 120 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) Immunofluo-rescence: 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, **D0 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.