

NUDT7 (h): 293T Lysate: sc-372453

BACKGROUND

NUDT7 (nucleoside diphosphate-linked moiety X motif 7), also known as peroxisomal coenzyme A diphosphatase NUDT7 or nudix motif 7, is a 238 amino acid protein that functions as a coenzyme A diphosphatase that mediates the cleavage of CoA into 3',5'-ADP and 4'-phosphopantetheine. Localized to the peroxisome, NUDT7 belongs to the nudix hydrolase family and PCD1 subfamily. NUDT7 is expressed in heart, spleen, liver, pancreas, pituitary, small intestine, kidney and placenta. NUDT7 contains one nudix hydrolase domain and is encoded by a gene that maps to human chromosome 16, which encodes over 900 genes and comprises nearly 3% of the human genome. The GAN gene is located on chromosome 16 and, with mutation, may lead to giant axonal neuropathy, a nervous system disorder characterized by increasing malfunction with growth. The rare disorder Rubinstein-Taybi syndrome is also associated with chromosome 16, as is Crohn's disease, which is a gastrointestinal inflammatory condition.

REFERENCES

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- Gasmi, L. and McLennan, A.G. 2001. The mouse Nudt7 gene encodes a peroxisomal nudix hydrolase specific for coenzyme A and its derivatives. *Biochem. J.* 357: 33-38.
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STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

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

CHROMOSOMAL LOCATION

Genetic locus: NUDT7 (human) mapping to 16q23.1.

PRODUCT

NUDT7 (h): 293T Lysate represents a lysate of human NUDT7 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

NUDT7 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive NUDT7 antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

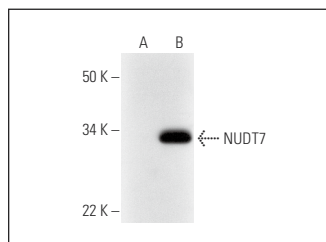
NUDT7 (E-9): sc-390911 is recommended as a positive control antibody for Western Blot analysis of enhanced human NUDT7 expression in NUDT7 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



NUDT7 (E-9): sc-390911. Western blot analysis of NUDT7 expression in non-transfected: sc-117752 (A) and human NUDT7 transfected: sc-372453 (B) 293T whole cell lysates.

RESEARCH USE

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