SANTA CRUZ BIOTECHNOLOGY, INC.

CUTC (m): 293T Lysate: sc-119529

BACKGROUND

Copper is an essential micronutrient used as a co-factor for several essential enzymes in all living organisms. Due to the high toxicity of copper, its metabolism is tightly regulated and defects in this regulation can cause Menkes (deficiency) or Wilson (accumulation) disease in various tissue. CUTC (CUTC copper transporter homolog *(E. coli)],* also known as CGI-32, is a 273 amino acid protein belonging to the CUTC family. CUTC is involved in copper homeostasis and is encoded by a gene located on human chromosome 10, which contains over 800 genes and 135 million nucleotides. PTEN is an important tumor suppressor gene located on chromosome 10 and, when defective, causes a genetic predisposition to cancer development known as Cowden syndrome. Other chromosome 10 associated disorders include Cockayne syndrome, tetrahydrobiopterin deficiency and trisomy 10.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Cutc (mouse) mapping to 19 C3.

PRODUCT

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

APPLICATIONS

CUTC (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive CUTC 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.

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.

RESEARCH USE

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

PROTOCOLS

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