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BCDIN3 (m): 293T Lysate: sc-118775

BACKGROUND

BCDIN3 (bicoid-interacting protein 3), also known as MEPCE (methylphosphate capping enzyme), is a 689 amino acid protein that contains one BIN3 domain and belongs to the methyltransferase superfamily. Expressed in lung, brain, kidney, testis, mammary gland and cerebellum, BCDIN3 exists as a component of the multi-protein 7SK snRNP complex and functions as an S-adenosyl-L-methionine-dependent methyltransferase that stabilizes 7SK snRNA, specifically by adding a methylphosphate cap at the 5'-end of the snRNA. In addition to its expression in normal tissues, BCDIN3 is also present in chronic myeloid leukemia cells, suggesting a role in tumor progression and metastasis. The gene encoding BCDIN3 maps to human chromosome 7q22.1, which houses over 1,000 genes and comprises nearly 5% of the human genome. Defects in some of the genes localized to chromosome 7 have been linked to Osteogenesis imperfecta, Williams-Beuren syndrome, Pendred syndrome, Lissencephaly, Citrullinemia and Shwachman-Diamond syndrome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Mepce (mouse) mapping to 5 G2.

PRODUCT

BCDIN3 (m): 293T Lysate represents a lysate of mouse BCDIN3 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

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.

APPLICATIONS

BCDIN3 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive BCDIN3 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.

PROTOCOLS

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