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MESDC1 (m): 293T Lysate: sc-127143

BACKGROUND

MESDC1 (mesoderm development candidate 1) is a 362 amino acid protein encoded by a gene that maps to human chromosome 15q25.1. Encoding more than 700 genes, chromosome 15 is made up of approximately 106 million base pairs and is about 3% of the human genome. Angelman and Prader-Willi syndromes are associated with loss of function or deletion of genes in the 15q11-q13 region. In the case of Angelman syndrome, this loss is due to inactivity of the maternal 15q11-q13 encoded UBE3A gene in the brain by either chromosomal deletion or mutation. In cases of Prader-Willi syndrome, there is a partial or complete deletion of this region from the paternal copy of chromosome 15. Tay-Sachs disease is a lethal disorder associated with mutations of the HEXA gene, which is encoded by chromosome 15. Marfan syndrome is associated with chromosome 15 through the FBN1 gene.

REFERENCES

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2. Wines, M.E., et al. 2001. Identification of mesoderm development (mesd) candidate genes by comparative mapping and genome sequence analysis. *Genomics* 72: 88-98.
3. Li, Y., et al. 2006. Modulation of LRP6-mediated Wnt signaling by molecular chaperone Mesd. *FEBS Lett.* 580: 5423-5428.
4. Midla, G.S. 2008. Diagnosis and management of patients with Marfan syndrome. *JAAPA* 21: 21-25.
5. Dan, B. 2009. Angelman syndrome: current understanding and research prospects. *Epilepsia* 50: 2331-2339.
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CHROMOSOMAL LOCATION

Genetic locus: *Mesdc1* (mouse) mapping to 7 D3.

PRODUCT

MESDC1 (m): 293T Lysate represents a lysate of mouse MESDC1 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

MESDC1 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive MESDC1 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.