



FVT1 (h): 293T Lysate: sc-158526

BACKGROUND

FVT1 (follicular variant translocation protein 1), also known as KDSR (3-ketodihydrosphingosine reductase) or DHSR, is a 332 amino acid multi-pass membrane protein that localizes to the endoplasmic reticulum (ER) and belongs to the short-chain dehydrogenases/reductases (SDR) family. Widely expressed with highest expression in placenta, kidney, lung, small intestine and stomach, FVT1 catalyzes the NADP-dependent reduction of 3-ketodihydrosphingosine (KDS) to dihydrosphingosine (DHS), a key reaction in sphingolipid metabolism. In humans, defects in the gene encoding FVT1 are associated with follicular lymphoma (also known as type II chronic lymphatic leukemia), a common, slow-growing cancer arising from B cells. Mutations in the gene encoding the corresponding bovine ortholog are associated with spinal muscular atrophy, a general term for a number of disorders characterized by a loss of motor neurons in the brainstem and spinal cord.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: KDSR (human) mapping to 18q21.33.

PRODUCT

FVT1 (h): 293T Lysate represents a lysate of human FVT1 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

FVT1 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive FVT1 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.