



FRMD3 (h): 293T Lysate: sc-114564

BACKGROUND

FERM domains are roughly 150 amino acids in length and are found in a number of cytoskeletal-associated proteins such as ezrin, radixin, moesin and 4.1 (erythrocyte membrane protein band 4.1), where they provide a link between cytoskeletal signals and membrane dynamics. FRMD3 (FERM domain-containing protein 3), also known as band 4.1-like protein 40 or 4.10 (ovary type protein 4.1), is a 597 amino acid single-pass membrane protein that contains one FERM domain. Gene transcription of FRMD3 is ovary-specific. Expression of FRMD3 can be found in kidney, lung and skeletal muscle, with lower levels in thymus and brain. FRMD3 is a novel putative tumor suppressor gene that likely has an important role in the development and progression of lung cancer. The gene encoding FRMD, which maps to human chromosome 9q21.32, may also be involved in susceptibility to diabetic nephropathy. FRMD3 exists as five alternatively spliced isoforms.

REFERENCES

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4. Haase, D., et al. 2007. FRMD3, a novel putative tumour suppressor in NSCLC. *Oncogene* 26: 4464-4468.
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7. Mooyaart, A.L., et al. 2011. Genetic associations in diabetic nephropathy: a meta-analysis. *Diabetologia* 54: 544-553.

CHROMOSOMAL LOCATION

Genetic locus: FRMD3 (human) mapping to 9q21.32.

PRODUCT

FRMD3 (h): 293T Lysate represents a lysate of human FRMD3 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

FRMD3 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive FRMD3 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.