

TUSC5 (h): 293T Lysate: sc-112682

BACKGROUND

TUSC5 (tumor suppressor candidate 5), also known as protein located at 17p13.3, LOST1 or IFITMD3 (interferon-induced transmembrane domain-containing protein D3), is a 177 amino acid multi-pass membrane protein that belongs to the CD225 family. Thought to play a role in fat metabolism, TUSC5 is highly expressed in mammary gland, heart, smooth muscle, skeletal muscle and stomach, with lower levels found in lung and brain. The gene encoding TUSC5 maps to human chromosome 17, which comprises over 2.5% of the human genome and encodes over 1,200 genes. Two key tumor suppressor genes are associated with chromosome 17, namely, p53 and BRCA1. Malfunction or loss of p53 expression is associated with malignant cell growth and Li-Fraumeni syndrome. Like p53, BRCA1 is directly involved in DNA repair, and is linked to predisposition of cancers of the ovary, colon, prostate gland and fallopian tubes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TUSC5 (human) mapping to 17p13.3.

PRODUCT

TUSC5 (h): 293T Lysate represents a lysate of human TUSC5 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

RESEARCH USE

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

APPLICATIONS

TUSC5 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive TUSC5 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.

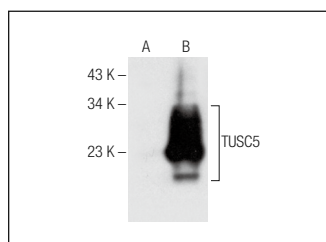
TUSC5 (B-4): sc-377025 is recommended as a positive control antibody for Western Blot analysis of enhanced human TUSC5 expression in TUSC5 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

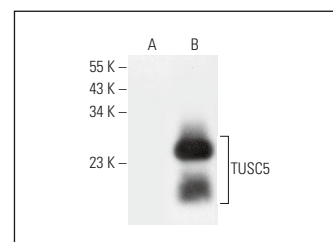
To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



TUSC5 (B-4): sc-377025. Western blot analysis of TUSC5 expression in non-transfected: sc-117752 (A) and human TUSC5 transfected: sc-112682 (B) 293T whole cell lysates.



TUSC5 (C-5): sc-514114. Western blot analysis of TUSC5 expression in non-transfected: sc-117752 (A) and human TUSC5 transfected: sc-112682 (B) 293T whole cell lysates.

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.

PROTOCOLS

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