transgelin (m): 293T Lysate: sc-124254



The Power to Question

BACKGROUND

Transgelin, also designated $SM22\alpha$, is expressed abundantly in smooth muscle cells. The human transgelin gene (designated TAGLN), which is located on chromosome 11q23.2, encodes a 201 amino acid protein that contains nuclear factor-binding motifs known to regulate transcription in smooth muscle. During embryogenesis, transgelin is expressed in smooth, cardiac and skeletal muscle, but is restricted during late fetal development and adulthood to all vascular and visceral smooth muscle cells and low levels of expression in heart. Transgelin is downregulated in several transformed cell lines, indicating that a reduction of transgelin expression may be an early indicator of the onset of transformation. Transgelin also binds Actin, causing Actin fibers to gel within minutes of binding. Binding of transgelin to Actin occurs at a ratio of 1:6 Actin monomers.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Tagln (mouse) mapping to 9 A5.2.

PRODUCT

transgelin (m): 293T Lysate represents a lysate of mouse transgelin 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.

PROTOCOLS

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

APPLICATIONS

transgelin (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive transgelin antibodies. Recommended use: 10-20 μ l per lane

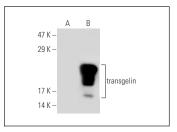
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

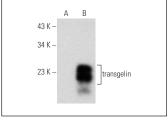
transgelin (6G6): sc-53932 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse transgelin expression in transgelin transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA





transgelin (6G6): sc-53932. Western blot analysis of transgelin expression in non-transfected: sc-117752 (A) and mouse transgelin transfected: sc-124254 (B) 293T whole cell lysates.

transgelin (C-11): sc-271719. Western blot analysis of transgelin expression in non-transfected: sc-117752 (A) and mouse transgelin transfected: sc-124254 (B) 293T whole cell lysates.

RESEARCH USE

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

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