

SPARC (h): 293T Lysate: sc-111589

BACKGROUND

SPARC (secreted protein acidic and rich in cysteine or osteonectin) is a phosphorylated, acidic, glycine-rich glycoprotein of 43 kDa that is secreted by endothelial cells and is present in large amounts in the parietal endoderm of mouse embryos and in human placenta. The gene encoding SPARC maps to human chromosome 5q31.3-q32. SPARC is identical to osteonectin, a protein important to bone calcification that is highly conserved between species. SPARC, which can be selectively expressed by the endothelium in response to certain types of injury, induces rounding in adherent endothelial cells *in vitro*. SPARC regulates endothelial barrier function through F-Actin-dependent changes in cell shape, coincident with the appearance of intercellular gaps, that provide a paracellular pathway for extravasation of macromolecules.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SPARC (human) mapping to 5q33.1.

PRODUCT

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

APPLICATIONS

SPARC (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive SPARC antibodies. Recommended use: 10-20 µl per lane.

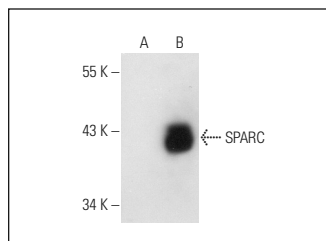
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

SPARC (AON-5031): sc-73472 is recommended as a positive control antibody for Western Blot analysis of enhanced human SPARC expression in SPARC transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

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.

DATA



SPARC (AON-5031): sc-73472. Western blot analysis of SPARC expression in non-transfected: sc-117752 (A) and human SPARC transfected: sc-111589 (B) 293T whole cell lysates.

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.