SANTA CRUZ BIOTECHNOLOGY, INC.

SMOC-1 (h): 293 Lysate: sc-110902

BACKGROUND

SMOC-1 (SPARC-related modular calcium-binding protein-1) is a secreted modular calcium-binding protein found in the extracellular space in or around the basement membrane. SMOC-1 is a member of the BM-40 family and contains two EF-hand domains, one Kazal-like domain and two Thyroglobulin type-1 domains. The BM-40 family has been implicated with tissue remodeling, angiogenesis and bone mineralization. In embryonic stage day 12, and fetal stages day 14, 16 and 18, the SMOC-1 protein is present in the basement membrane zones of brain, blood vessels, skin, skeletal muscle, lung, heart, liver, pancreas, ovary, intestine and kidney. This broad and organ-specific distribution suggests multifunctional roles of SMOC-1 during embryogenesis.

REFERENCES

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3. Srivastava, J., Premi, S., Pathak, D., Ahsan, Z., Tiwari, M., Garg, L.C. and Ali, S. 2006. Transcriptional status of known and novel genes tagged with consensus of 33.15 repeat loci employing minisatellite-associated sequence amplification (MASA) and real-time PCR in water buffalo, *Bubalus bubalis*. DNA Cell Biol. 25: 31-48.
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5. Srivastava, J., Premi, S., Kumar, S., Parwez, I. and Ali, S. 2007. Characterization of SMOC-1 uncovers two transcript variants showing differential tissue and age specific expression in *Bubalus bubalis*. BMC Genomics 8: 436-436.
6. Sherva, R., Miller, M.B., Lynch, A.I., Devereux, R.B., Rao, D.C., Oberman, A., Hopkins, P.N., Kitzman, D.W., Atwood, L.D. and Arnett, D.K. 2007. A whole genome scan for pulse pressure/stroke volume ratio in African Americans: the HyperGEN study. Am. J. Hypertens. 20: 398-402.

CHROMOSOMAL LOCATION

Genetic locus: SMOC1 (human) mapping to 14q24.2.

PRODUCT

SMOC-1 (h): 293 Lysate represents a lysate of human SMOC-1 transfected 293 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.

APPLICATIONS

SMOC-1 (h): 293 Lysate is suitable as a Western Blotting positive control for human reactive SMOC-1 antibodies. Recommended use: 10-20 µl per lane.

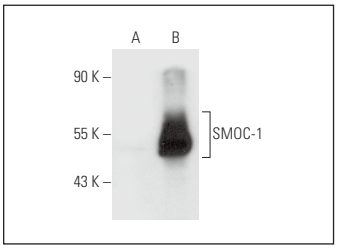
Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-tranfected 293 cells.

SMOC-1 (F-3): sc-133150 is recommended as a positive control antibody for Western Blot analysis of enhanced human SMOC-1 expression in SMOC-1 transfected 293 cells (starting dilution 1:100, dilution range 1:100-1:1,000).

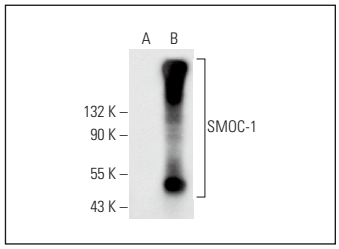
RECOMMENDED SUPPORT REAGENTS

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



SMOC-1 (F-3): sc-133150. Western blot analysis of SMOC-1 expression in non-transfected: sc-110760 (**A**) and human SMOC-1 transfected: sc-110902 (**B**) 293 whole cell lysates.



SMOC-1 (C-2): sc-133235. Western blot analysis of SMOC-1 expression in non-transfected: sc-110760 (**A**) and human SMOC-1 transfected: sc-110902 (**B**) 293 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.