SREBP-2 (h): 293T Lysate: sc-116625



The Power to Overtion

BACKGROUND

The low density lipoprotein (LDL) receptor mediates the endocytic uptake of cholesterol-carrying lipoproteins, thereby controlling cholesterol levels in cells and plasma. Transcription of the LDL receptor gene is controlled by a 10 base pair sequence in the 5' flanking region, designated sterol regulatory element 1 (SRE-1). When cellular sterol stores are depleted, the element is activated, the gene is transcribed and the cellular uptake of LDL increases. A set of SRE-binding proteins (SREBPs) have been identified, including two basic helix-loophelix-leucine zipper (bHLH-Zip) transcription factors, designated SREBP-1 and SREBP-2 SREBP-1 and SREBP-2 have been shown to have the same specificity for SRE-1 *in vitro* and to activate the transcription of reporter genes containing SRE-1 in the same way.

REFERENCES

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- Briggs, M.R., et al. 1993. Nuclear protein that binds sterol regulatory element of LDL receptor promoter. I. Identification of the protein and delineation of its target nucleotide sequence. J. Biol. Chem. 268: 14490-14496.
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- 7. Wang, X., et al. 1994. SREBP-1, a membrane-bound transcription factor released by sterol-regulated proteolysis. Cell 77: 53-62.
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CHROMOSOMAL LOCATION

Genetic locus: SREBF2 (human) mapping to 22q13.2.

PRODUCT

SREBP-2 (h): 293T Lysate represents a lysate of human SREBP-2 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.

APPLICATIONS

SREBP-2 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive SREBP-2 antibodies. Recommended use: 10-20 μ l per lane

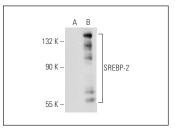
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

SREBP-2 (1C6): sc-13552 is recommended as a positive control antibody for Western Blot analysis of enhanced human SREBP-2 expression in SREBP-2 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



SREBP-2 (1C6): sc-13552. Western blot analysis of SREBP-2 expression in non-transfected: sc-117752 (A) and human SREBP-2 transfected: sc-116625 (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.

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