**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-loop-helix-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.

**CHROMOSOMAL LOCATION**

Genetic locus: SREBF2 (human) mapping to 22q13.2; Srebf2 (mouse) mapping to 15 E1.

**SOURCE**

SREBP-2 (A-12) is a mouse monoclonal antibody raised against amino acids 812-975 of SREBP-2 of human origin.

**PRODUCT**

Each vial contains 200 μg IgGκ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

SREBP-2 (A-12) is available conjugated to agaroase (sc-271616 AC), 500 μg/0.25 ml agaroase in 1 ml, for IP; to HRP (sc-271616 HRP), 200 μg/ml, for WB, (HCP) and ELISA; to either phycoerytherin (sc-271616 PE), fluorescein (sc-271616 FITC), Alexa Fluor® 488 (sc-271616 AF488), Alexa Fluor® 546 (sc-271616 AF546), Alexa Fluor® 594 (sc-271616 AF594) or Alexa Fluor® 647 (sc-271616 AF647), 200 μg/ml, for WB (RGB), IF, HCP and FCM; and to either Alexa Fluor® 680 (sc-271616 AF680) or Alexa Fluor® 790 (sc-271616 AF790), 200 μg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**APPLICATIONS**

SREBP-2 (A-12) is recommended for detection of SREBP-2 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 μg per 100-500 μg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for SREBP-2 siRNA (h); sc-36559, SREBP-2 siRNA (m); sc-36560, SREBP-2 shRNA Plasmid (h); sc-36559-SH, SREBP-2 shRNA Plasmid (m); sc-36560-SH, SREBP-2 shRNA (h) Lentiviral Particles; sc-36559-V and SREBP-2 shRNA (m) Lentiviral Particles: sc-36560-V.

Molecular Weight of SREBP-2: 68/125 kDa.

Positive Controls: Daudi cell lysate: sc-2415, Neuro-2A whole cell lysate: sc-364185 or Ramos cell lysate: sc-2216.

**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.
2. Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

**DATA**

**SELECT PRODUCT CITATIONS**


**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RESEARCH USE**

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

**PROTOCOLS**

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