Basic Information

**Catalog Number:** 14088-1-AP

**Size:** 150μl, Concentration: 650 μg/ml by Nanodrop

**Source:** Rabbit

**Isotype:** IgG

**Immunogen Catalog Number:** AG5219

**GenBank Accession Number:** BC063281

**GenelD (NCBI):** 6720

**Full Name:** sterol regulatory element binding transcription factor 1

**Calculated MW:** 1177 aa, 125 kDa

**Observed MW:** 125 kDa, 68 kDa

**Purification Method:** Antigen affinity purification

**Recommended Dilutions:**
- WB: 1:1000-1:4000
- IP: 0.5-4.0 μg for IP and 1:500-1:1000 for WB
- IHC: 1:50-1:500
- IF: 1:50-1:500

Applications

**Tested Applications:** IF, IHC, IP, WB, ELISA

**Cited Applications:** ChIP, CoIP, IF, IHC, IP, WB

**Species Specificity:** human, mouse, rat

**Cited Species:** human, goat, chicken, rat, mouse, pig, bovine

**Note:** IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

**Positive Controls:**
- WB: HeLa cells, L02 cells, MCF-7 cells, mouse liver tissue, rat liver tissue
- IP: L02 cells,
- IHC: human kidney tissue, human skeletal muscle tissue
- IF: HeLa cells,

Background Information

SREBF1, also named as BHLHD1 and SREBP1, contains one basic helix-loop-helix (bHLH) domain and belongs to the SREBP family. It is a transcriptional activator required for lipid homeostasis. The SREBPs are synthesized as precursors anchored to endoplasmic reticulum (ER) membranes and complexed with SCAP. When the cellular cholesterol level is low, SREBP-SCAP complexes move to the Golgi apparatus, where SREBPs undergo a two-step proteolytic processing, leading to the release of the mature form, an N-terminal fragment, i.e., basic helix-loop-helix leucine zipper transcription factor. These factors enter the nucleus where they bind to sterol regulatory elements (SRE) in the promoter regions of a number of genes whose products mediate the synthesis of cholesterol and fatty acids. [PMID: 21698267]. This antibody can recognize the 125 kDa precursor form and the 68 kDa mature form of human SREBF1.

Notable Publications

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<th>Author</th>
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<td>33182043</td>
<td>Int Immunopharmacol</td>
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<td>Shaofan Hu</td>
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<td>Mingyue Tao</td>
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Storage

**Storage:**
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

**Aliquoting is unnecessary for -20°C storage**

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 465-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
Various lysates were subjected to SDS PAGE followed by western blot with 14088-1-AP (SREBF1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.

IP Result of anti-SREBF1 (IP:14088-1-AP, 4ug; Detection:14088-1-AP 1:600) with L02 cells lysate 1500ug.

Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 14088-1-AP (SREBF1 Antibody) at dilution of 1:50 (under 10x lens).

Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 14088-1-AP (SREBF1 Antibody) at dilution of 1:50 (under 40x lens).

Immunofluorescent analysis of (10% Formaldehyde) fixed HeLa cells using 14088-1-AP (SREBF1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

Various lysates were subjected to SDS PAGE followed by western blot with 14088-1-AP (SREBF1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.

WB result of SREBF1 antibody (14088-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SREBF1 transfected HeLa cells.

WB result of SREBF1 antibody (14088-1-AP; 1:6000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SREBF1 transfected HeLa cells.

Various lysates were subjected to SDS PAGE followed by western blot with 14088-1-AP (SREBF1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.