For Research Use Only

SREBF1 Polyclonal antibody

Catalog Number:14088-1-AP Featured Product 271 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
14088-1-AP

Size:
150ul , Concentration: 650 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG5219

GenBank Accession Number:
BC063281

GeneID (NCBI):
6720

UNIPROT ID:
P36956

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 ug for 1.0-3.0 mg of total protein lysate
IHC: 1:50-1:500
IF/ICC: 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF/ICC, IP, ELISA

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

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat, pig, monkey, chicken, bovine, sheep, goat

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/ICC : 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

Author	Pubmed ID	Journal	Application
Zhongwen Feng	33182043	Int Immunopharmacol	WB
Shaofan Hu	36174386	Redox Biol	WB
Mingyue Tao	34518524	Cell Death Dis	WB,IF

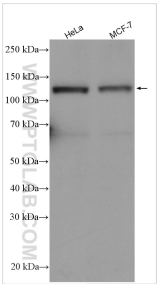
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

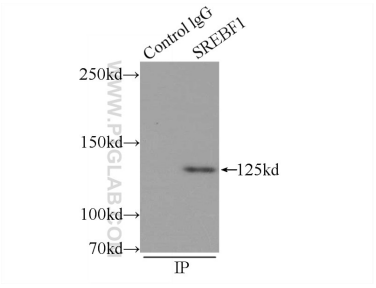
*** 20ul sizes contain 0.1% BSA

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) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

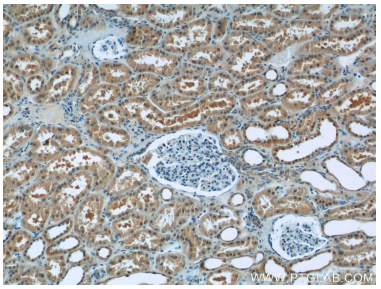
Selected Validation Data



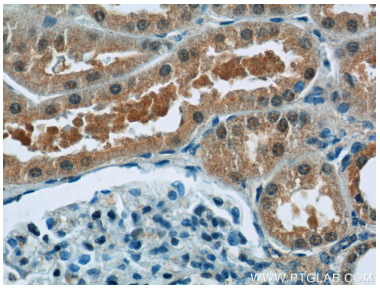
Various lysates were subjected to SDS PAGE followed by western blot with 14088-1-AP (SREBF1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



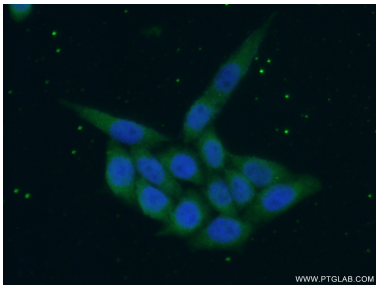
IP result of anti-SREBF1 (IP:14088-1-AP, 4ug; Detection:14088-1-AP 1:600) with L02 cells lysate 1500ug.



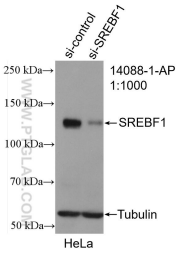
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 14088-1-AP (SREBF1 Antibody) at dilution of 1:50 (under 10x lens).



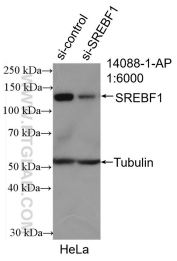
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 14088-1-AP (SREBF1 Antibody) at dilution of 1:50 (under 40x lens).



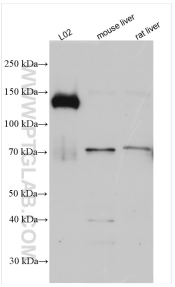
Immunofluorescent analysis of (10% Formaldehyde) fixed HeLa cells using 14088-1-AP (SREBF1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).



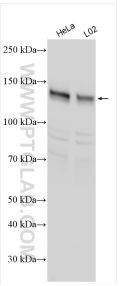
WB result of SREBF1 antibody (14088-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SREBF1 transfected HeLa cells.



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 1:5000 incubated at room temperature for 1.5 hours.



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.