Leader in Biomolecular Solutions for Life Science

[KD Validated] SREBF1 Rabbit pAb

Catalog No.: A15586SP

42 Publications

www.abclonal.com

Basic Information

Observed MW
125 kDa

Calculated MW
122 kDa

Category
Polyclonal Antibodies

Applications
WB, IP, IF-F, IHC-P, ChIP, ELISA

Cross Reactivity
Human, Mouse, Rat

Background

This gene encodes a basic helix-loop-helix-leucine zipper (bHLH-Zip) transcription factor that binds to the sterol regulatory element-1 (SRE1), which is a motif that is found in the promoter of the low density lipoprotein receptor gene and other genes involved in sterol biosynthesis. The encoded protein is synthesized as a precursor that is initially attached to the nuclear membrane and endoplasmic reticulum. Following cleavage, the mature protein translocates to the nucleus and activates transcription. This cleaveage is inhibited by sterols. This gene is located within the Smith-Magenis syndrome region on chromosome 17. Alternative promoter usage and splicing result in multiple transcript variants, including SREBP-1a and SREBP-1c, which correspond to RefSeq transcript variants 2 and 3, respectively.

Recommended Dilutions

WB	1:1000 - 1:4000
IP	0.5 μg - 4 μg antibody for 400 μg - 600 μg extracts of whole cells
IF-F	1:200 - 1:400
IHC-P	1:200 - 1:400
ChIP	2 μg antibody for 10 μg - 15 μg of Chromatin
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.For high-ratio antibody dilutions (≥1:10000),a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
6720

Swiss-Prot
P36956

Immunogen
This information is considered to be commercially sensitive.

Synonyms
HMD; IFAP2; SREBP1; bHLHd1

Contact

400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

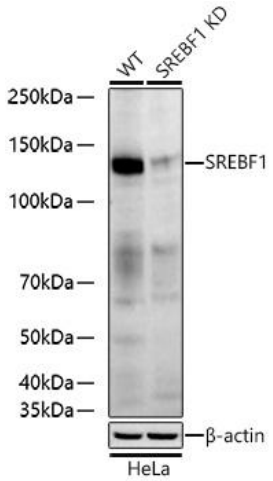
Product Information

Source	Isotype	Purity
Rabbit	IgG	Affinity purification

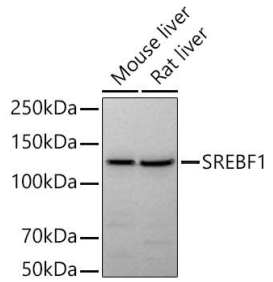
Storage

Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS, pH 7.3, containing 50% glycerol. Preserved with Proclin300 or sodium azide. May contain 0.05% BSA as specified on the Certificate of Analysis.

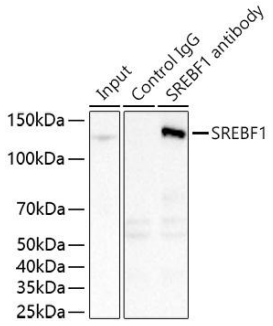
Validation Data



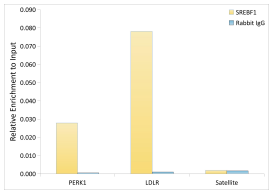
Western blot analysis of lysates from wild type (WT) and SREBF1 knockdown (KD) HeLa cells using [KD Validated] SREBF1 Rabbit pAb (A15586SP) at 1:1000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 60 s.



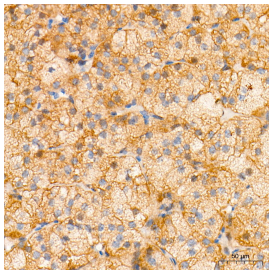
Western blot analysis of various lysates using [KD Validated] SREBF1 Rabbit pAb (A15586SP) at 1:2000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10 s.



Immunoprecipitation of SREBF1 from 600 µg extracts of HeLa cells was performed using 2 µg of [KD Validated] SREBF1 Rabbit pAb (A15586SP). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using [KD Validated] SREBF1 Rabbit pAb (A15586SP) at a dilution of 1:1000.



Chromatin immunoprecipitation was performed with 15 µg of cross-linked chromatin from HeLa cells treated by tunicamycin(2 ug/ml,8h), using 2 µg of [KD Validated] SREBF1 Rabbit pAb(A15586SP) and Rabbit IgG isotype control (AC042). The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram compares the ratio of the immunoprecipitated DNA to the input at given loci.



Immunohistochemistry analysis of paraffin-embedded Human adrenal gland tissue using [KD Validated] SREBF1 Rabbit pAb (A15586SP) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.