

# Anti-SREBP1 Antibody [PSH04-61] - BSA and Azide free

## HA750968



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human
<b>Applications:</b>	WB, IHC-P, IF-Cell
<b>Molecular Wt:</b>	Predicted band size: 122 kDa
<b>Clone number:</b>	PSH04-61

**Description:** Sterol regulatory element-binding transcription factor 1 (SREBF1) also known as sterol regulatory element-binding protein 1 (SREBP-1) is a protein that in humans is encoded by the SREBF1 gene. This gene is located within the Smith-Magenis syndrome region on chromosome 17. Two transcript variants encoding different isoforms have been found for this gene. The isoforms are SREBP-1a and SREBP-1c (the latter also called ADD-1). SREBP-1a is expressed in the intestine and spleen, whereas SREBP-1c is mainly expressed in liver, muscle, and fat (among other tissues). SREBP-1 plays a key role in the induction of lipogenesis by the liver. mTORC1 is activated by insulin (a hormone of nutrient abundance) leading to increased production of SREBP-1c, which facilitates storage of fatty acids (excess nutrients) as triglycerides.

**Immunogen:** Synthetic peptide within human SREBP1 aa 301-350 / 1,147.

**Positive control:** HeLa cell lysate, HEK-293 cell lysate, MCF7 cell lysate, A549 cell lysate, SK-Br-3 cell lysate, human adrenal gland tissue, HeLa.

**Subcellular location:** Endoplasmic reticulum membrane, Golgi apparatus membrane, Cytoplasmic vesicle, COPII-coated vesicle membrane; Nucleus.

**Database links:** SwissProt: P36956 Human

**Recommended Dilutions:**

<b>WB</b>	1:2,000
<b>IHC-P</b>	1:50
<b>IF-Cell</b>	1:100

**Storage Buffer:** PBS (pH7.4).

**Storage Instruction:** Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

**Purity:** Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

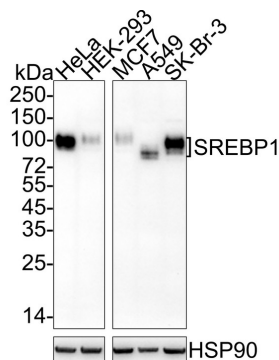
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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

## Images

**Fig1:** Western blot analysis of SREBP1 on different lysates with Rabbit anti-SREBP1 antibody (HA750968) at 1/2,000 dilution.

Lane 1: HeLa cell lysate  
Lane 2: HEK-293 cell lysate  
Lane 3: MCF7 cell lysate  
Lane 4: A549 cell lysate  
Lane 5: SK-Br-3 cell lysate



Lysates/proteins at 20 µg/Lane.

Predicted band size: 122 kDa  
Observed band size: 80-100 kDa

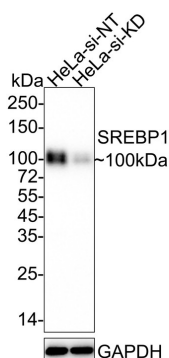
Exposure time: 3 minutes; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA750968) at 1/2,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

**Fig2:** Western blot analysis of SREBP1 on different lysates with Rabbit anti-SREBP1 antibody (HA750968) at 1/2,000 dilution.

Lane 1: HeLa-si-NT cell lysate  
Lane 2: HeLa-si-SREBP1 cell lysate



Lysates/proteins at 10 µg/Lane.

Predicted band size: 122 kDa  
Observed band size: 100 kDa

Exposure time: 1 minute 50 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA750968) at 1/2,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

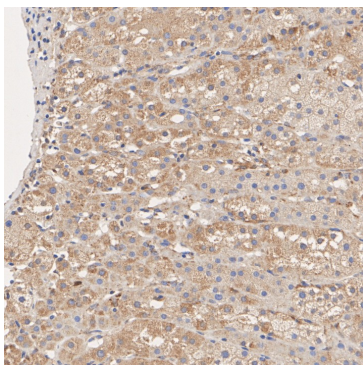
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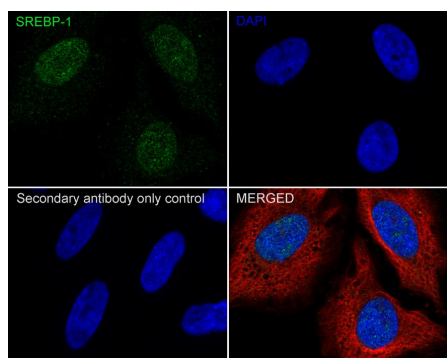
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**Fig3:** Immunohistochemical analysis of paraffin-embedded human adrenal gland tissue with Rabbit anti-SREBP1 antibody (HA750968) at 1/50 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) (high pressure) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA750968) at 1/50 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

**Fig4:** Immunocytochemistry analysis of HeLa cells labeling SREBP1 with Rabbit anti-SREBP1 antibody (HA750968) at 1/100 dilution.



Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-SREBP1 antibody (HA750968) at 1/100 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (M1305-2, red) was stained at 1/100 dilution overnight at +4 °C. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) was used as the secondary antibody at 1/1,000 dilution.

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

### Background References

1. Chen J et al. ACSL4 reprograms fatty acid metabolism in hepatocellular carcinoma via c-Myc/SREBP1 pathway. *Cancer Lett.* 2021 Apr
2. Jia Y et al. Long non-coding RNA NEAT1 mediated RPRD1B stability facilitates fatty acid metabolism and lymph node metastasis via c-Jun/c-Fos/SREBP1 axis in gastric cancer. *J Exp Clin Cancer Res.* 2022 Sep

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