

SREBP1 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10749**Specification**

SREBP1 Antibody - Product Information

Application	WB
Primary Accession	P56720
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	120521

SREBP1 Antibody - Additional Information**Gene ID** 78968

Positive Control

**Jurkat (Induced and Uninduced), Rat
Kidney, 3T3 cell lysates**

Application & Usage

**The antibody can be used for Western blot
analysis (0.5-4 µg/ml). However, the
optimal conditions should be determined
individually. Blocking peptide is available
separately.****Other Names**Adipocyte determination- and differentiation-dependent factor 1, ADD1, Sterol regulatory
element-binding transcription factor 1**Target/Specificity**

SREBP1

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation100 µg (0.5 mg/ml) affinity purified rabbit anti-SREBP1 polyclonal antibody in phosphate buffered
saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 5 mM EDTA and 0.01% thimerosal.**Handling**

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions

Precautions

SREBP1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

SREBP1 Antibody - Protein Information

Name Srebf1 {ECO:0000312|RGD:69423}

Function

[Sterol regulatory element-binding protein 1]: Precursor of the transcription factor form (Processed sterol regulatory element-binding protein 1), which is embedded in the endoplasmic reticulum membrane (By similarity). Low sterol concentrations promote processing of this form, releasing the transcription factor form that translocates into the nucleus and activates transcription of genes involved in cholesterol biosynthesis and lipid homeostasis (By similarity).

Cellular Location

[Sterol regulatory element-binding protein 1]: Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:P36956}; Multi-pass membrane protein. Golgi apparatus membrane {ECO:0000250|UniProtKB:Q9WTN3}; Multi-pass membrane protein. Cytoplasmic vesicle, COPII-coated vesicle membrane {ECO:0000250|UniProtKB:Q9WTN3}; Multi-pass membrane protein. Note=At high sterol concentrations, the SCAP-SREBP is retained in the endoplasmic reticulum. Low sterol concentrations promote recruitment into COPII-coated vesicles and transport of the SCAP-SREBP to the Golgi, where it is processed {ECO:0000250|UniProtKB:Q9WTN3}

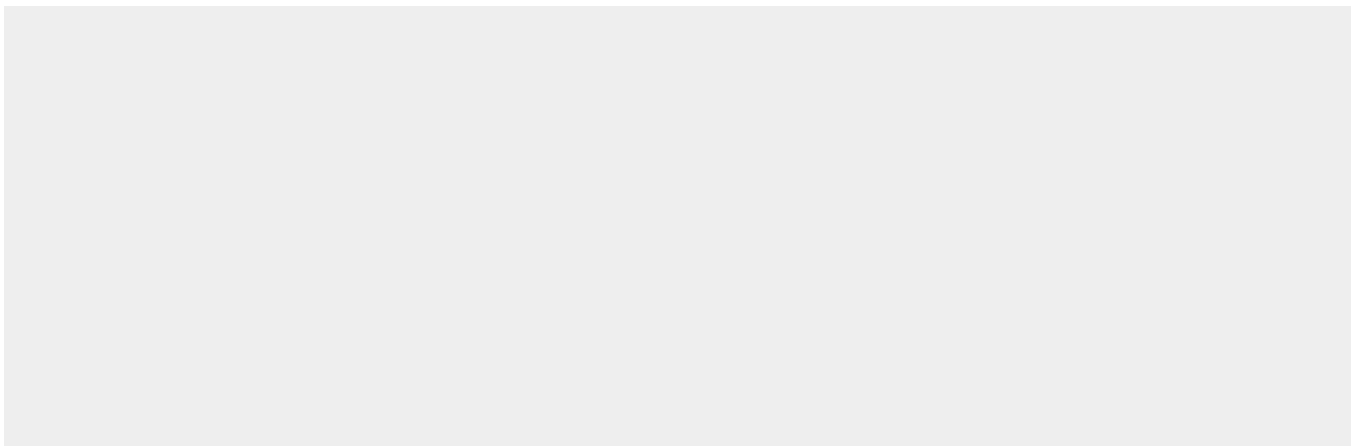
Tissue Location

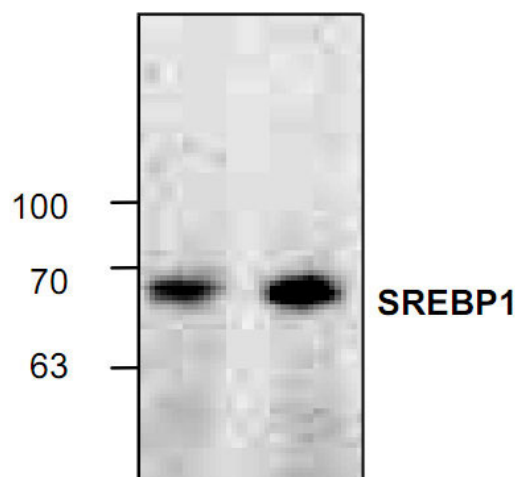
Expressed predominantly in brown adipose tissue.

SREBP1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SREBP1 Antibody - Images



Western blot analysis of SREBP1 with Jurkat cell lysate.

SREBP1 Antibody - Background

SREBP (Sterol Regulatory Element Binding Protein) 1 and 2 are transcription factors that regulate cholesterol homeostasis. SREBP proteins are attached to the endoplasmic reticulum and nuclear envelope. SREBP proteins undergo proteolytic cleavage in response to conditions of low cellular sterol. Upon activation of SREBP 1, a soluble NH₂ cleavage fragment translocates to the nucleus and activates transcription of enzymes and other proteins required for cholesterol synthesis.