


Product datasheet

Anti-SREBP2 antibody ab112046

★★★★★ [2 Abreviews](#) [5 References](#) [2 Images](#)

Overview

Product name	Anti-SREBP2 antibody
Description	Rabbit polyclonal to SREBP2
Host species	Rabbit
Tested applications	Suitable for: WB, IP
Species reactivity	Reacts with: Human Predicted to work with: Rat, Horse, Chicken, Guinea pig, Cow, Dog, Pig, Chimpanzee, Ferret, Rhesus monkey, Gorilla, Chinese hamster, Orangutan 
Immunogen	Synthetic peptide corresponding to Human SREBP2 aa 300-350. Database link: Q12772
Positive control	HeLa and 293T whole cell lysate
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.00 Preservative: 0.09% Sodium azide Constituent: 99% Tris citrate/phosphate
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab112046 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (2)	1/1000 - 1/5000. Predicted molecular weight: 124 kDa.
IP		Use at 2-10 µg/mg of lysate.

Target

Function

Transcriptional activator required for lipid homeostasis. Regulates transcription of the LDL receptor gene as well as the cholesterol and to a lesser degree the fatty acid synthesis pathway (By similarity). Binds the sterol regulatory element 1 (SRE-1) (5'-ATCACCCAC-3') found in the flanking region of the LDRL and HMG-CoA synthase genes.

Tissue specificity

Ubiquitously expressed in adult and fetal tissues.

Sequence similarities

Belongs to the SREBP family.
Contains 1 basic helix-loop-helix (bHLH) domain.

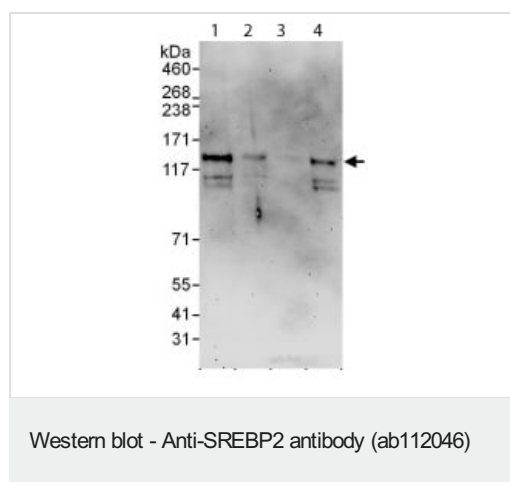
Post-translational modifications

At low cholesterol the SCAP/SREBP complex is recruited into COPII vesicles for export from the ER. In the Golgi complex SREBPs are cleaved sequentially by site-1 and site-2 protease. The first cleavage by site-1 protease occurs within the luminal loop, the second cleavage by site-2 protease occurs within the first transmembrane domain and releases the transcription factor from the Golgi membrane. Apoptosis triggers cleavage by the cysteine proteases caspase-3 and caspase-7.

Cellular localization

Nucleus and Endoplasmic reticulum membrane. Golgi apparatus membrane. Cytoplasmic vesicle > COPII-coated vesicle membrane. Moves from the endoplasmic reticulum to the Golgi in the absence of sterols.

Images



All lanes : Anti-SREBP2 antibody (ab112046) at 0.4 µg/ml

Lane 1 : HeLa whole cell lysate at 50 µg

Lane 2 : HeLa whole cell lysate at 15 µg

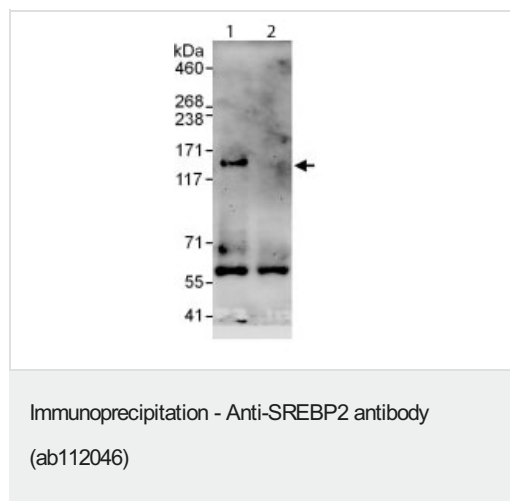
Lane 3 : HeLa whole cell lysate at 5 µg

Lane 4 : 293T whole cell lysate at 50 µg

Developed using the ECL technique.

Predicted band size: 124 kDa

Exposure time: 3 minutes



Detection of SREBP2 by Western Blot of Immunoprecipitate.

Lane 1: ab112046 at 1µg/ml staining SREBP2 in HeLa whole cell lysate immunoprecipitated using ab112046 at 6µg/mg lysate (1 mg/IP; 20% of IP loaded/lane).

Lane 2: Control IgG

Detection: Chemiluminescence with exposure time of 30 seconds.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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