abcam

Product datasheet

Recombinant Human SREBP2 protein ab114215

1 Image

Description

Product name	Recombinant Human SREBP2 protein
Expression system	Wheat germ
Accession	Q12772
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	QAFCKNLLERAIESLVKPQAKKKAGDQEEESCEFSSALE YLKLLHSFVDS VGVMSPPLSRSSVLKSALGPDIICRWWTSAITVAISWLQG DDAAVRSHFT
Predicted molecular weight	37 kDa including tags
Amino acids	801 to 900

Specifications

Our **Abpromise guarantee** covers the use of **ab114215** in the following tested applications.

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

Applications	ELISA SDS-PAGE Western blot
Form	Liquid
Additional notes	

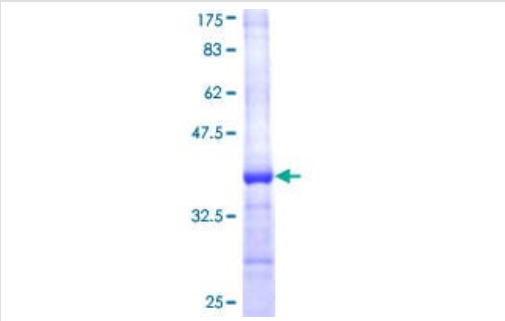
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl

General Info

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'-ATCACCCCAC-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



SDS-PAGE - Recombinant Human SREBP2 protein (ab114215)

ab114215 analysed on a 12.5% SDS-PAGE gel stained with Coomassie Blue.

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