SREBF1 Transcription Factor Assay Kit

Catalog # KA1377 Size 1 Kit

Applications

Result Data

Result Data

Assay of recombinant SREBP-1 from *E. coli* cell lysates.

Specification

Product Description	SREBF1 Transcription Factor Assay Kit is a method for detecting SREBF1 transcription factor DNA binding activity in nuclear extracts.
Regulation Status	For research use only (RUO)
Storage Instruction	Store the kit at -20°C temporarily. For best results, store the components as described in the protocol.
Note	Result Data Result Data Assay of recombinant SREBP-1 from *E. coli* cell lysates.

Applications

- Functional Study

Gene Info — SREBF1

Entrez GeneID	6720

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Gene Name	SREBF1
Gene Alias	SREBP-1c, SREBP1, bHLHd1
Gene Description	sterol regulatory element binding transcription factor 1
Omim ID	184756
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a transcription factor that binds to the sterol regulatory element-1 (SRE1), which is a decamer flanking the low density lipoprotein receptor gene and some genes involved in sterol biosynthesis. The protein is synthesized as a precursor that is attached to the nuclear membrane and endoplasmic reticulum. Following cleavage, the mature protein translocates to the nucleus and activates transcription by binding to the SRE1. Sterols inhibit the cleavage of the precursor, and the mature nuclear form is rapidly catabolized, thereby reducing transcription. The protein is a member of the basic helix-loop-helix-leucine zipper (bHLH-Zip) transcription factor family. 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. [provided by RefSeq
Other Designations	sterol regulatory element binding protein-1

Publication Reference

- Apolipoprotein A4 Restricts Diet-induced Hepatic Steatosis via SREBF1-mediated Lipogenesis and Enhances IRS-PI3K-Akt Signaling.

  Cheng Cheng, Xiao-Huan Liu, Jing He, Jing Gao, Jin-Ting Zhou, Jing-Na Fan, Xi Jin, Jianbo Zhang, Liao Chang, Zijun Xiong, Jun Yu, Shengbin Li, Xiaoming Li.

  Molecular Nutrition & Food Research 2022 Sep; 66(18):e2101034.

  Application: Func, Human, HepG2 cells

Pathway

- Insulin signaling pathway

Disease

- Alzheimer disease
- Arteriosclerosis
- Atherosclerosis

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- Breast cancer
- Breast Neoplasms
- Calcinosis
- Cardiovascular Diseases
- Coronary Artery Disease
- Coronary Disease
- Dementia
- Diabetes Complications
- Diabetes Mellitus
- Disease Progression
- Drug Toxicity
- Edema
- Fatty Liver
- Femur Head Necrosis
- Genetic Predisposition to Disease
- Hypercholesterolemia
- Hyperlipidemias
- Insulin Resistance
- Kidney Failure
- Metabolic Syndrome X
- Neoplasms
- Obesity
- Osteoporosis
- Renal Insufficiency
- Schizophrenia
- Weight Gain

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- Werner syndrome

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