CREATIVE BIOMART®
Assay Kit

SREBP-1 Transcription Factor Assay Kit

Product Information

Cat.No. Kit-0801

Product Overview

SREBP-1 Transcription Factor Assay is a non-radioactive, sensitive method for detecting specific transcription factor DNA binding activity in nuclear extracts. A 96-well enzyme-linked immunosorbent assay (ELISA) replaces the cumbersome radioactive electrophoretic mobility shift assay (EMSA). A specific double stranded DNA (dsDNA) sequence containing the SREBP response element is immobilized onto the wells of a 96-well plate. SREBP-1 contained in a nuclear extract binds specifically to the SREBP response element. SREBP-1 is detected by addition of a specific primary antibody directed against SREBP-1. A secondary antibody conjugated to HRP is added to provide a sensitive colorimetric readout at 450 nm. The SREBP-1 Transcription Factor Assay detects human, rat, and murine SREBP-1.

Size

96 tests

Description

Lipid homeostasis in vertebrate cells is regulated by a family of transcription factors called sterol regulatory elements binding proteins (SREBPs). SREBPs directly activate the expression of over 30 gened involved in teh synthesis and uptake of cholesterol, fatty cids, triglycerides and phopholipids. SREBP-1 acts primarily to activate genes in fatty acid synthesis. Nuclear SREBP-1 upregulates gene expression of a group of a target lipogenic enzymes such as acetyl CoA carboxylase and fatty acid synthase.

Applications

Functional Studies more details

Target Species

Reacts with: Mouse, Rat, Human

Kit Components

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Components: 96 tests; 96-Well Plate Cover: 1 unit; Polysorbate 20: 1 vial; SREBP-1 positive control: 1 x 150µl; SREBP-1 Primary Antibody: 1 x 120µl; Transcription Factor Antibody Binding Buffer (10X): 1 x 3ml; Transcription Factor Binding Assay Buffer (4X): 1 x 3ml; Transcription Factor Developing Solution: 1 x 12ml; Transcription Factor Goat Anti-Rabbit HRP Conjugate: 1 x 100µl; Transcription Factor Reagent A: 1 x 120µl; Transcription Factor SREBP 96-Well Strip Plate: 1 unit; Transcription Factor SREBP Competitor dsDNA: 1 x 120µl; Transcription Factor Stop Solution: 1 x 12ml; Wash Buffer Concentrate (400X): 1 x 5ml

Compatible Sample Types
Cell culture extracts, Nuclear Extracts

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