CREATIVE BIOMART®
Assay Kit

SREBP-2 Transcription Factor Assay Kit

Product Information

Cat.No. Kit-0802

Product Overview

SREBP-2 Transcription Factor Assay Kit is a non-radioactive, sensitive method for detecting specific transcription factor DNA binding activity in nuclear extracts and whole cell lysates. 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 to the wells of a 96-well plate. SREBP contained in a nuclear extract, binds specifically to the SREBP response element. SREBP is detected by addition of a specific primary antibody directed against SREBP. A secondary antibody conjugated to HRP is added to provide a sensitive colorimetric readout at 450 nm.

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-2 activates cholesterol synthesis by upregulating expression of HMG-CoA reductase.

Applications

Functional Studies more details

Target Species

Reacts with: Human; Predicted to work with: all Mammals

Kit Components

Components: 96 tests; 96-Well Plate Cover: 1 unit; Polysorbate 20: 1 vial; 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

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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 vial; Transcription Factor SREBP-2 Positive Control: 1 vial; Transcription Factor SREBP-2 Primary Antibody: 1 vial; Transcription Factor Stop Solution: 1 x 12ml; Wash Buffer Concentrate (400X): 1 x 5ml

Compatible Sample Types

Adherent cells, Suspension cells, Nuclear Extracts

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