



## SREBP-1 Transcription Factor Assay Kit

### Product Information

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#### Cat.No.

Kit-0801

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#### Product Overview

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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.

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#### Size

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96 tests

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#### Description

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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 genes involved in the synthesis and uptake of cholesterol, fatty acids, triglycerides and phospholipids. SREBP-1 acts primarily to activate genes in fatty acid synthesis. Nuclear SREBP-1 upregulates gene expression of a group of target lipogenic enzymes such as acetyl CoA carboxylase and fatty acid synthase.

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#### Applications

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Functional Studies more details

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#### Target Species

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Reacts with: Mouse, Rat, Human

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## SREBP-1 Transcription Factor Assay Kit

### 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 150 $\mu$ l; SREBP-1 Primary Antibody: 1 x 120 $\mu$ l; 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 100 $\mu$ l; Transcription Factor Reagent A: 1 x 120 $\mu$ l; Transcription Factor SREBP 96-Well Strip Plate: 1 unit; Transcription Factor SREBP Competitor dsDNA: 1 x 120 $\mu$ l; Transcription Factor Stop Solution: 1 x 12ml; Wash Buffer Concentrate (400X): 1 x 5ml

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### Compatible Sample Types

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Cell culture extracts, Nuclear Extracts

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