CREATIVE BIOMART®
Assay Kit

ATF2 (pT69/pT71) Transcription Factor Assay Kit

Product Information

Cat.No. Kit-0111

Product Overview

ATF2 (pT69/pT71) Transcription Factor Assay Kit 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 cAMP-response element (CRE) is immobilized onto the wells of a 96-well plate. ATF2 contained in a nuclear extract, binds specifically to the CRE. The activated ATF2 transcription factor complex is detected by addition of a specific primary antibody directed against the phospho-Thr(pT69/pT71) epitope on ATF2. A secondary antibody conjugated to HRP is added to provide a sensitive colorimetric readout at 450 nm.

Size

96 tests

Description

ATF2 (Activating Transcription Factor 2) is a sequence-specific DNA-binding protein belonging to the bZIP family of transcription factors that bind with high affinity to CRE (cAMP-responsive element) in the promoter region of target genes. ATF2 mediates both transcription and DNA damage control through its phosphorylation/ activation in response to inflammatory cytokines and other cellular stress factors.

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; TF ATF2 (Phospho-Thr69,71)

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96-Well Strip Plate: 1 unit; TF ATF2 (Phospho-Thr69,71) Competitor dsDNA: 1 vial; TF ATF2 (Phospho-Thr69,71) Positive Control: 1 vial; TF ATF2 (Phospho-Thr69,71) Primary Antibody: 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-Mouse HRP Conjugate: 1 vial; Transcription Factor Reagent A: 1 x 120µl; Transcription Factor Stop Solution: 1 x 12ml; Wash Buffer Concentrate (400X): 1 x 5ml

Compatible Sample Types

Nuclear Extracts

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