CREATIVE BIOMART®
Assay Kit

CREB1 (phospho S133) Transcription Factor Assay Kit

Product Information

Cat.No. Kit-0262

Product Overview

CREB1 (phospho S133) Transcription Factor Assay Kit is a colorimetric method for determining CREB1 DNA binding activity.

Description

Cyclic AMP response element-binding protein (CREB) belongs to a large family of structurally related transcription factors called bZIP and includes AFT1-4, c-Fos, c-Myc, c-Jun, and C/EBP. These basic region leucine zipper (bZIP) transcription factors have a DNA-binding domain and a dimerization domain that contains the leucine zipper motif. CREB proteins recognize and bind to the cAMP-responsive element promoter (CRE) site and regulate transcription of many downstream genes that play important roles in metabolic regulation, depression, and in signaling pathways that enable long term memory.

Usage

For research use only (RUO)

Storage

This kit will perform as specified if stored as directed and used before the expiration date indicated on the outside of the box.Component StorageTranscription Factor Binding Assay Buffer (4X) 4°CTranscription Factor Reagent A -20°CTF CREB (Phospho-Ser133) Positive Control -80°CTranscription Factor Antibody Binding Buffer (10X) 4°C TF CREB (Phospho-Ser133) Primary Antibody -20°CWash Buffer Concentrate (400X) RTPolysorbate 20 RTTF CREB (Phospho-Ser133) Competitor dsDNA -20°CTranscription Factor Goat Anti-Rabbit HRP Conjugate -20°CTF CREB (Phospho-Ser133) 96-Well Strip Plate 4°C96-Well Cover Sheets RTTranscription Factor Developing Solution 4°CTranscription Factor Stop Solution RTKit components may be stored at -20°C prior to use. For long term storage, the Positive Control should be thawed on ice, aliquoted at 25 μL/vial, and stored at -80°C. After opening kit, we recommend each kit component be stored according to the temperature listed above.

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Kit Components

Transcription Factor Binding Assay Buffer (4X) 1 vialTranscription Factor Reagent A 1 vialTF CREB (Phospho-Ser133) Positive Control 1 vialTranscription Factor Antibody Binding Buffer (10X) 1 vialTF CREB (Phospho-Ser133) Primary Antibody 1 vialWash Buffer Concentrate (400X) (5 mL) 1 vialPolysorbate 20 1 vialTF CREB (Phospho-Ser133) Specific Competitor dsDNA 1 vialTranscription Factor Goat Anti-Rabbit HRP Conjugate 1 vialTF CREB (Phospho-Ser133) 96-Well Strip Plate 1 plate96-Well Cover Sheets 1 coverTranscription Factor Developing Solution 1 vialTranscription Factor Stop Solution 1 vial

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