

# 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 Storage  
Transcription Factor Binding Assay Buffer (4X) 4°C  
Transcription Factor Reagent A -20°C  
TF CREB (Phospho-Ser133) Positive Control -80°C  
Transcription Factor Antibody Binding Buffer (10X) 4°C  
TF CREB (Phospho-Ser133) Primary Antibody -20°C  
Wash Buffer Concentrate (400X) RT  
Poly sorbate 20 RT  
TF CREB (Phospho-Ser133) Competitor dsDNA -20°C  
Transcription Factor Goat Anti-Rabbit HRP Conjugate -20°C  
TF CREB (Phospho-Ser133) 96-Well Strip Plate 4°C  
96-Well Cover Sheets RT  
Transcription Factor Developing Solution 4°C  
Transcription Factor Stop Solution RT  
Kit 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

## **CREB1 (phospho S133) Transcription Factor Assay Kit**

the temperature listed above.

### **Kit Components**

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