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Datasheet for ABIN5526692

CREB1 ELISA Kit

Images



Overview

Quantity:	96 tests	
Target:	CREB1	
Binding Specificity:	phosphorylated	
Reactivity:	Human	
Method Type:	DNA-Binding ELISA	
Application:	ELISA	
Product Details		
Purpose:	Human pCREB Transcription Factor Activity Assay. This assay uses a dsDNA coated plate with canonical CREB binding sequences phosphorylated at site serine residue 133 to semi-quantitatively detect active pCREB in lysates or nuclear extracts. Only available in North America.	
Sample Type:	Cell Lysate, Nuclear Extract	
Analytical Method:	Semi-Quantitative	
Detection Method:	Colorimetric	
Specificity:	The olionucleotide/antibody pair provided in this kit recognizes human phosphorylated CREB in whole lysates and nuclear extracts.	
Characteristics:	 Specific transcription factor-DNA binding assay Perfect alternative to EMSA Easy to perform in an ELISA format Non-radioactive assay High throughput (96 well plate format) 	

Product Details

•	Assay can	be completed	within 5 hours

Components:

- 96-well Strip Microplate pre-coated with DNA probes
- · DNA Binding Buffer
- · Positive Control Sample
- Specific Competitor DNA probe
- · Non-specific Competitor DNA probe
- · Assay Reagent
- DTT
- · Wash Buffer
- · Primary Antibody
- · HRP-conjugated Secondary Antibody
- · TMB One-Step Substrate Reagent
- · Stop Solution

Material not included:

- · Distilled or deionized water
- · 100 mL and 1 liter graduated cylinders
- · Tubes to prepare sample dilutions Absorbent paper
- Precision pipettes to deliver 2 µL to 1 mL volumes
- Adjustable 1-25 mL pipettes for reagent preparation
- · Benchtop rocker or shaker
- · Microplate reader capable of measuring absorbance at 450 nm

Target Details

Target:	CREB1	
Alternative Name:	CREB (CREB1 Products)	
Gene ID:	1385	
UniProt:	P16220	
Pathways:	TLR Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophi Signaling Pathway, Thyroid Hormone Synthesis, Activation of Innate immune Response, Myometrial Relaxation and Contraction, Regulation of Cell Size, Toll-Like Receptors Cascade G-protein mediated Events, Interaction of EGFR with phospholipase C-gamma, Positive Regulation of fat Cell Differentiation	

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Plate:	Pre-coated

Application Details

Protocol:

- 1. Prepare all reagents and samples as instructed in the manual.
- 2. Add 100 µL of sample or positive control to each well.
- 3. Incubate 2 h at RT or O/N at 4 °C.
- 4. Add 100 µL of prepared primary antibody to each well.
- 5. Incubate 1 h at RT.
- 6. Add 100 µL of prepared HRP-secondary antibody to each well.
- 7. Incubate 1 h at RT.
- 8. Add 100 µL of TMB One-Step Substrate Reagent to each well.
- 9. Incubate 30 min at RT.
- 10. Add 50 µL of Stop Solution to each well.
- 11. Read at 450 nm immediately.

Restrictions:

For Research Use only

Handling

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-20 °C

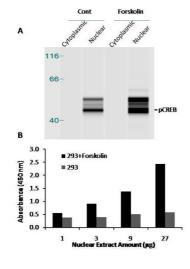
Storage Comment:

Upon receipt, the positive control should be removed and stored at -20° or -80°C. The remainder of the kit can be stored for up to 6 months at 2-8°C from the date of shipment. Opened Microplate Wells or reagents may be stored for up to 1 month at 2° to 8°C. Return unused wells to the pouch containing desiccant pack, reseal along entire edge. Note: The kit can be used within one year if the whole kit is stored at -20°C upon receipt. Avoid repeated freeze-thaw cycles.

Expiry Date:

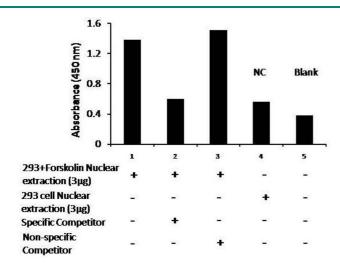
6 months

Images



Activity Assay

Image 1. Transcription factor activity assay of CREB from nuclear extracts of HEK293 cells or 293 cells treated with Forskolin (10 μ M) for 4 hr. A. Western-blot result of phosphorylated CREB from cytoplasm and nuclear fractions. B. Transcription factor activity assay of pCREB from nuclear fractions with the pCREB Transcription Factor Activity Assay Kit.



Activity Assay

Image 2. Transcription factor activity assay of pCREB from nuclear extracts of HEK293 cells or 293 cells treated with Forskolin ($10\mu M$) for 4 hr with the specific competitor or non-specific competitor. The result shows specific binding of pCREB to the CREB binding site.