abcam

Product datasheet

Anti-CREB + ICER antibody ab5803

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Overview

Product name	Anti-CREB + ICER antibody
Description	Rabbit polyclonal to CREB + ICER
Host species	Rabbit
Specificity	ab5803 detects both the phosphorylated and non-phosphorylated forms of cyclic-AMP response element binding protein (CREB) from rat cells.
Tested applications	**Suitable for:** WB, ICC/IF, IHC-P
Species reactivity	**Reacts with:** Mouse, Rat, Human **Predicted to work with:** Cow, Dog, Zebrafish
Immunogen	Synthetic peptide corresponding to Human CREB aa 123-136. Sequence: KRREILSRRPSYRK (Peptide available as **ab5860**) Run BLAST with Run BLAST with
Positive control	WB: GH4 cell extract. ICC/IF: SK-N-MC cells, Neuro-2a cells. IHC-P: Mouse brain tissue, Human glioma, Human lung adenocarcinoma.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 99% PBS

Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab5803 in the following tested applications.

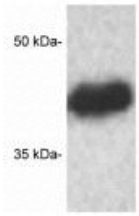
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★☆☆ (2)	Use a concentration of 2 µg/ml. Detects a band of approximately 43 kDa (predicted molecular weight: 43 kDa).Can be blocked with **CREB + ICER peptide (ab5860)**.
ICC/IF	★★★★☆ (1)	1/50 - 1/500.
IHC-P		1/20 - 1/200.

Target

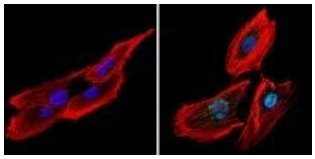
Cellular localization CREB: Nucleus. CREM: Nucleus.

Images



Western blot - Anti-CREB + ICER antibody (ab5803)

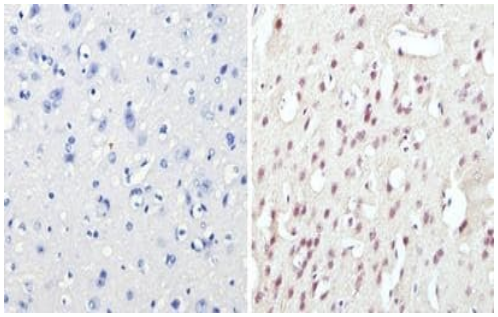
Shows a Western blot of CREB on GH4 cell extract using ab5803.



Immunocytochemistry/ Immunofluorescence - Anti-CREB + ICER antibody (ab5803)

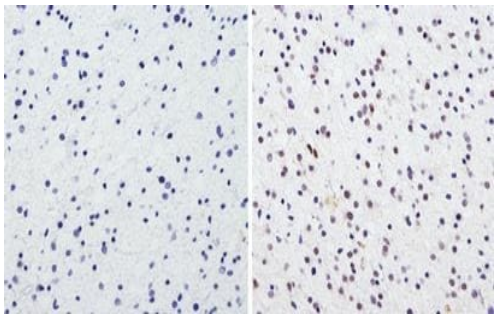
Immunofluorescent analysis of CREB (green) showing staining in the nucleus of SK-N-MC cells (right) compared to a negative control without primary antibody (left). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a CREB polyclonal antibody (ab5803) in 3% BSA-PBS at a dilution of 1:200 and incubated overnight at 4ºC in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. Actin was stained using Alexa Fluor 554

(red) and nuclei were stained with Hoechst or DAPI (blue). Images were taken at a magnification of 60x.



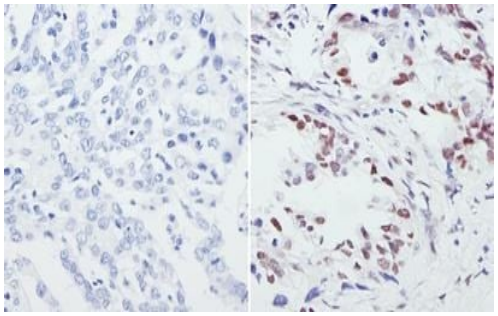
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CREB + ICER antibody (ab5803)

Immunohistochemistry analysis of CREB showing staining in the nucleus of paraffin-embedded mouse brain tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H_2O_2-methanol for 15 min at room temperature, washed with ddH_2O and PBS, and then probed with a CREB polyclonal antibody (ab5803) diluted in 3% BSA-PBS at a dilution of 1:50 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



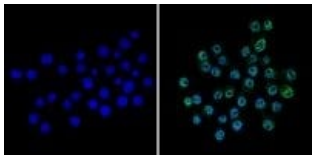
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CREB + ICER antibody (ab5803)

Immunohistochemistry analysis of CREB showing staining in the nucleus of paraffin-embedded Human glioma (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H_2O_2-methanol for 15 min at room temperature, washed with ddH_2O and PBS, and then probed with a CREB polyclonal antibody (ab5803) diluted in 3% BSA-PBS at a dilution of 1:100 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



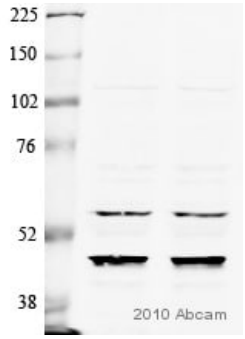
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CREB + ICER antibody (ab5803)

Immunohistochemistry analysis of CREB showing staining in the nucleus of paraffin-embedded Human lung adenocarcinoma (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H_2O_2-methanol for 15 min at room temperature, washed with ddH_2O and PBS, and then probed with a CREB polyclonal antibody (ab5803) diluted in 3% BSA-PBS at a dilution of 1:100 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



Immunocytochemistry/ Immunofluorescence - Anti-CREB + ICER antibody (ab5803)

Immunofluorescent analysis of CREB (green) showing staining in the nucleus of Neuro-2a cells (right) compared to a negative control without primary antibody (left). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a CREB polyclonal antibody (ab5803) in 3% BSA-PBS at a dilution of 1:100 and incubated overnight at 4ºC in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. Nuclei were stained with Hoechst or DAPI (blue). Images were taken at a magnification of 60x.



Western blot - Anti-CREB + ICER antibody (ab5803)

This image is courtesy of Richard D'Mello, Kings College, London

All lanes : Anti-CREB + ICER antibody (ab5803) at 1/500 dilution

All lanes : hippocampal lysate

Lysates/proteins at 40 µg per lane.

Secondary

All lanes : Donkey Anti-Rabbit IR800-linked conjugated to IRDye 800CW at 1/15000 dilution

Performed under reducing conditions.

Predicted band size: 43 kDa
Observed band size: 43 kDa
Additional bands at: 55 kDa (possible non-specific binding)

Exposure time: 5 minutes

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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