

CREB ABfinity™ Recombinant Rabbit Monoclonal Antibody – Purified

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Rev. Date: 17 October 2011

Catalog Number: 701120

Store at 2–8°C

Clonality: Monoclonal
Concentration: 0.5 mg/mL
Quantity: 100 µg
Volume: 200 µL

Host/Class: Rabbit IgG
Reactivity: Human CREB
Predicted Reactivity: Human

Product Description

CREB (cAMP responsive element binding protein) encodes for a 43 kDa protein transcription factor and belongs to leucine zipper family. CREB binds to the cyclic-AMP response element (CRE, a sequence present in many viral and cellular promoters) as a homodimer. Phosphorylated form of CREB act as an inducer of transcription for the genes, upon hormone dependent stimulation of cyclic-AMP pathway. CREB is known to play important role in circadian rhythm generation and memory formation; aberration in CREB-mediated gene expression has been linked with Alzheimer disease. In humans, the gene is located on the q arm of chromosome 2.

Product Specifications

Immunogen: Recombinant protein corresponding to amino acids 222–341 of Human cAMP responsive element binding protein
Alternate Names: CREB 1
Apparent MW: ~43 kDa
Gene ID: 1385
Protein Accession No.: P16220
Sequence Identity: Human
Clone/PAD: 3H8L15
Lot: See product label

Product Applications

Application	Species	Test Material	Concentration
Western blotting	Human	K562 cells	1–3 µg/mL
Immunocytochemistry	Human	HeLa cells	1–3 µg/mL
Indirect ELISA	Human	Recombinant protein	1.5 × 10 ⁻⁴ to 3 µg/mL

Storage and Handling

Store the antibody at 2–8°C for up to 1 month, or –20°C for long storage. Avoid repeated freezing and thawing.

Stability

Expires one year from date of receipt when stored as instructed.

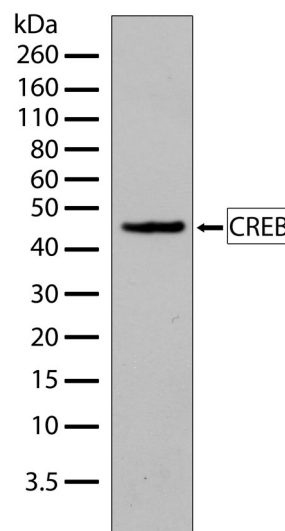


Figure 1 Western blot analysis of CREB ABfinity™ Recombinant Rabbit Monoclonal Antibody (Cat. no. 701120). Western blot analysis was performed on whole cell extracts of K562. Endogenous CREB protein was detected at ~43 kDa using CREB ABfinity™ Recombinant Rabbit Monoclonal Antibody at 1 µg/mL. The blot was developed using chemiluminescence (ECL) method.

For research use only. Not for human or animal therapeutic or diagnostic use.

Manufacturing Site • 7335 Executive Way • Frederick • MD 21704 • E-mail: techsupport@invitrogen.com

Storage Buffer

Phosphate buffered saline (PBS) with 0.09% sodium azide.

Safety Data Sheets (SDS)

Safety Data Sheets (SDSs) are available at www.invitrogen.com/sds.

Certificate of Analysis

The Certificate of Analysis provides detailed quality control and product qualification information for each product. Certificates of Analysis are available on our website. Go to www.invitrogen.com/support and search for the Certificate of Analysis by product lot number, which is printed on the box.

Related Products

Product Name	Quantity	Catalog No.
iBlot® Dry Blotting System	1 unit	IB1001
WesternBreeze™ Chromogenic Kit Anti-Rabbit	1 kit	WB7105
WesternBreeze™ Chemiluminescent Kit, Anti-Rabbit	1 kit	WB7106
Goat anti-mouse (H+L), HRP conj.	1 mg	G21040
Goat anti-rabbit (H+L), HRP conj.	1 mg	G21234
Goat anti-mouse (H+L), AP conj.	1 mg	G21060
Goat anti-rabbit (H+L), AP conj.	1 mg	G21079
Nitrocellulose, 0.2 µm	20/pack	LC2000

Explanation of symbols

Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		In vitro diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

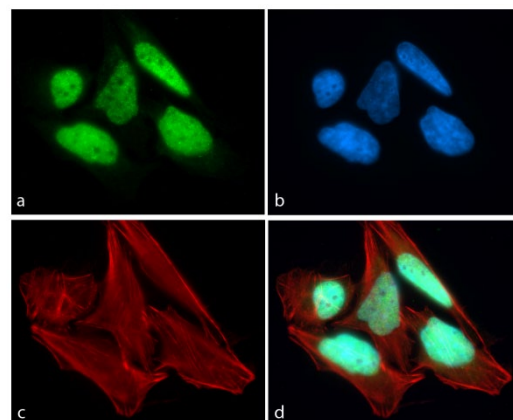


Figure 2 Immunocytochemistry analysis of CREB ABfinity™ Recombinant Rabbit Monoclonal Antibody (Cat. no. 701120). Immunocytochemistry analysis of serum starved HeLa cells treated with insulin (100 ng/mL for 15 minutes), and stained with CREB ABfinity™ Recombinant Rabbit Monoclonal Antibody, using **a**: Alexa Fluor® 488 goat anti-rabbit as a secondary antibody (green). **b**: DAPI was used to stain the nucleus (blue), and **c**: Alexa Fluor® 594 phalloidin was used to stain actin (red). **d**: Composite image of cells showing nuclear localization of CREB.

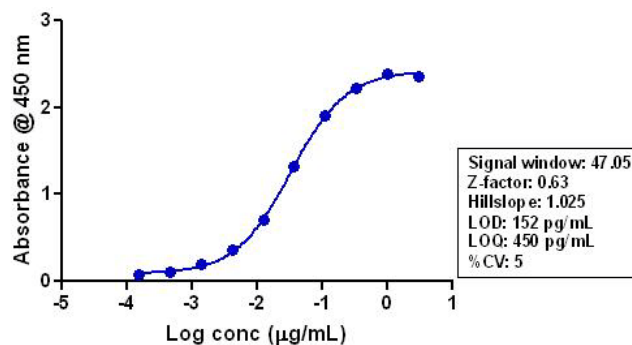


Figure 3 Indirect ELISA of CREB ABfinity™ Recombinant Rabbit Monoclonal Antibody (Cat. no. 701120). Indirect ELISA was performed using various dilutions of CREB ABfinity™ Recombinant Rabbit Monoclonal Antibody (Cat. no. 701120) to detect recombinant CREB protein coated onto the plate. A non-linear regression analysis was performed (4 PL) and LOD and LOQ for the antibody was determined.

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