

Datasheet for ABIN1944898
anti-CREB1 antibody (AA 1-297)



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Overview

Quantity:	400 µL
Target:	CREB1
Binding Specificity:	AA 1-297
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CREB1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This CREB1 antibody is generated from a mouse immunized with a recombinant protein from human CREB1.
Clone:	1335CT115-203-189
Isotype:	IgG1 kappa
Purification:	This antibody is purified through a protein G column, followed by dialysis against PBS.

Target Details

Target:	CREB1
Alternative Name:	CREB1 (CREB1 Products)
Background:	Phosphorylation-dependent transcription factor that stimulates transcription upon binding to

Target Details

the DNA cAMP response element (CRE), a sequence present in many viral and cellular promoters. Transcription activation is enhanced by the TORC coactivators which act independently of Ser-133 phosphorylation. Involved in different cellular processes including the synchronization of circadian rhythmicity and the differentiation of adipose cells.

Molecular Weight: 35136

Gene ID: 1385

UniProt: [P16220](#)

Pathways: [TLR Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Thyroid Hormone Synthesis](#), [Activation of Innate immune Response](#), [Myometrial Relaxation and Contraction](#), [Regulation of Cell Size](#), [Toll-Like Receptors Cascades](#), [G-protein mediated Events](#), [Interaction of EGFR with phospholipase C-gamma](#), [Positive Regulation of fat Cell Differentiation](#)

Application Details

Application Notes: IHC: 1:500. WB: 1:1000

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Purified monoclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-20 °C

Expiry Date: 6 months

Publications

Product cited in: Waeber, Meyer, Hoeffler, Habener: "Diversification of cyclic AMP-responsive enhancer binding proteins-generated by alternative exon splicing." in: **Transactions of the Association of American Physicians**, Vol. 103, pp. 28-37, (1992) ([PubMed](#)).

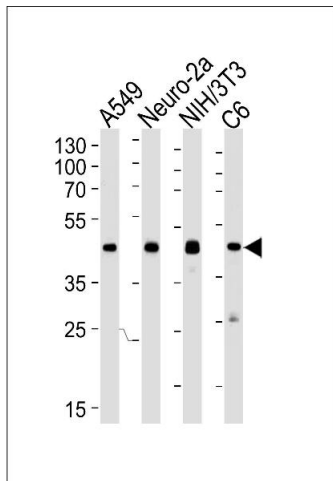
Short, Manohar, Furtado, Ghadge, Wolinsky, Thimmapaya, Jungmann: "Nucleotide and derived amino-acid sequences of the CRE-binding proteins from rat C6 glioma and HeLa cells." in: **Nucleic acids research**, Vol. 19, Issue 15, pp. 4290, (1991) ([PubMed](#)).

Berkowitz, Gilman: "Two distinct forms of active transcription factor CREB (cAMP response element binding protein)." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 87, Issue 14, pp. 5258-62, (1990) ([PubMed](#)).

Yoshimura, Fujisawa, Yoshida: "Multiple cDNA clones encoding nuclear proteins that bind to the tax-dependent enhancer of HTLV-1: all contain a leucine zipper structure and basic amino acid domain." in: **The EMBO journal**, Vol. 9, Issue 8, pp. 2537-42, (1990) ([PubMed](#)).

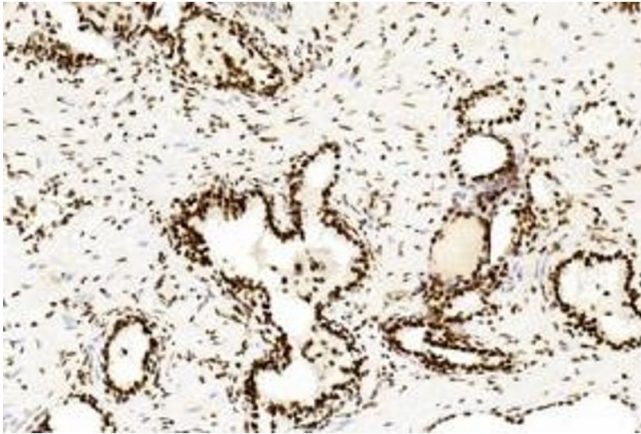
Hoeffler, Meyer, Yun, Jameson, Habener: "Cyclic AMP-responsive DNA-binding protein: structure based on a cloned placental cDNA." in: **Science (New York, N.Y.)**, Vol. 242, Issue 4884, pp. 1430-3, (1989) ([PubMed](#)).

Images



Western Blotting

Image 1. Western blot analysis of lysates from A549, mouse Neuro-2a, mouse NIH/3T3, rat C6 cell line (from left to right) using CREB1 Antibody (ABIN1944898 and ABIN2838500). (ABIN1944898 and ABIN2838500) was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:3000 dilution was used as the secondary antibody. Lysates at 35 µg per lane.



Immunohistochemistry

Image 2. Immunohistochemical analysis of paraffin-embedded Human Prostate cancer section using Pink1 B. B was diluted at 1:500 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.