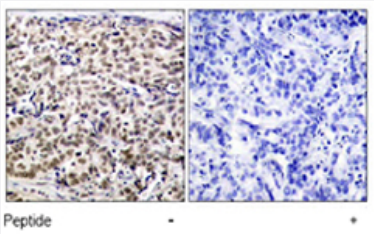
# CREB1 polyclonal antibody

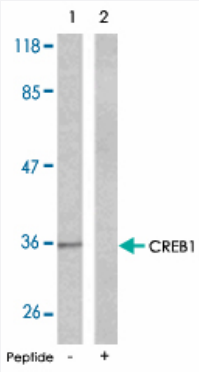
Catalog # PAB5306 Size 100 ug

## Applications




### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using CREB1 polyclonal antibody (Cat # PAB5306) .




### Western Blot (Cell lysate)

Western blot analysis of the extracts from NIH/3T3 cells , using CREB1 polyclonal antibody (Cat # PAB5306) .

## Specification

| | |
|---|---|
| **Product Description** | Rabbit polyclonal antibody raised against synthetic peptide of CREB1. |
| **Immunogen** | A synthetic peptide corresponding to residues surrounding S129 of human CREB1. |
| **Host** | Rabbit |
| **Reactivity** | Human, Mouse, Rat |
| **Form** | Liquid |
| **Quality Control Testing** | Antibody Reactive Against Synthetic Peptide. |

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| | |
|---|---|
| **Recommend Usage** | Immunohistochemistry (1:50-1:100)<br>Western Blot (1:500-1:1000)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide) |
| **Storage Instruction** | Store at -20°C.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using CREB1 polyclonal antibody (Cat # PAB5306) .

- Western Blot (Cell lysate)

  Western blot analysis of the extracts from NIH/3T3 cells , using CREB1 polyclonal antibody (Cat # PAB5306) .

## Gene Info — CREB1

| | |
|---|---|
| **Entrez GeneID** | 1385 |
| **Gene Name** | CREB1 |
| **Gene Alias** | CREB, MGC9284 |
| **Gene Description** | cAMP responsive element binding protein 1 |
| **Omim ID** | 123810 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | This gene encodes a transcription factor that is a member of the leucine zipper family of DNA bin ding proteins. This protein binds as a homodimer to the cAMP-responsive element, an octameric palindrome. The protein is phosphorylated by several protein kinases, and induces transcription o f genes in response to hormonal stimulation of the cAMP pathway. Alternate splicing of this gene r esults in two transcript variants encoding different isoforms. [provided by RefSeq |
| **Other Designations** | active transcription factor CREB\|cAMP-response element-binding protein-1\|transactivator protein |

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## Publication Reference

- Screening of organoids derived from patients with breast cancer implicates the repressor NCOR2 in cytotoxic stress response and antitumor immunity.

  Kelvin K Tsai, Shenq-Shyang Huang, Jason J Northey, Wen-Ying Liao, Chung-Chi Hsu, Li-Hsin Cheng, Michael E Werner, Chih-Pin Chuu, Chandrima Chatterjee, Jonathon N Lakins, Valerie M Weaver

  Nat Cancer 2022 6; 3(6):734-752.

- Platelet-derived growth factor BB induces nuclear export and proteasomal degradation of CREB via phosphatidylinositol 3-kinase/Akt signaling in pulmonary artery smooth muscle cells.

  Garat CV, Fankell D, Erickson PF, Reusch JE, Bauer NN, McMurtry IF, Klemm DJ.

  Molecular and Cellular Biology 2006 Jul; 26(13):4934.

- Impaired CREB-1 phosphorylation in antifolate-resistant cell lines with down-regulation of the reduced folate carrier gene.

  Rothem L, Stark M, Assaraf YG.

  Molecular Pharmacology 2004 Aug; 66(6):1536.

- Constitutively active glycogen synthase kinase-3beta gene transfer sustains apoptosis, inhibits proliferation of vascular smooth muscle cells, and reduces neointima formation after balloon injury in rats.

  Park KW, Yang HM, Youn SW, Yang HJ, Chae IH, Oh BH, Lee MM, Park YB, Choi YS, Kim HS, Walsh K.

  Arteriosclerosis, Thrombosis, and Vascular Biology 2003 Jun; 23(8):1364.

## Pathway

- Antigen processing and presentation
- Melanogenesis
- Prostate cancer

## Disease

- Alcoholism
- Alzheimer disease

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- Anorexia Nervosa
- Arousal
- Asthma
- Avoidance Learning
- Bipolar Disorder
- Bulimia
- Cardiovascular Diseases
- Choice Behavior
- Cognition
- Depressive Disorder
- Diabetes Complications
- Diabetes Mellitus
- Disease Models
- Dominance
- Edema
- Genetic Predisposition to Disease
- Inflammation
- Lymphoma
- Memory
- Metabolic Syndrome X
- Mood Disorders
- Neoplasms
- Osteoporosis
- Pattern Recognition
- Personality Inventory

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- Psychiatric Status Rating Scales

- Psychomotor Performance
- Schizophrenia
- Schizophrenic Psychology
- Sleep Disorders
- Weight Gain

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