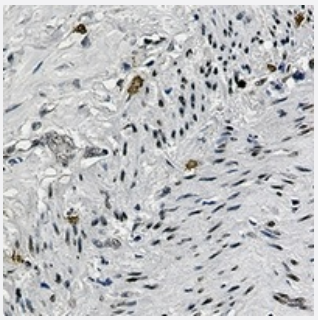
RecomAb™ Sm Size

# CREB1 (Phospho S133) recombinant monoclonal antibody

Catalog # RAB09155 Size 50 uL

## Applications



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

Immunohistochemical analysis of human lung cancer formalin fixed paraffin embedded tissue section using CREB (Phospho S133) recombinant monoclonal antibody (Cat # RAB09155). The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.79). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

## Specification

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|---|---|
| **Product Description** | Rabbit recombinant monoclonal antibody raised against human CREB1. |
| **Antibody Species** | Rabbit |
| **Immunogen** | Original antibody is raised against a synthetic phosphopeptide corresponding to residues surroundin g Ser133 of human CREB. |
| **Theoretical MW (kDa)** | 43 |
| **Reactivity** | Human, Rat |
| **Specificity** | Recognizes endogenous levels of CREB (pS133) protein. |
| **Form** | Liquid |
| **Preparation Method** | Mammalian cell (HEK293) expression system |
| **Purification** | Immunogen affinity chromatography |

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|---|---|
| **Isotype** | IgG |
| **Recommend Usage** | Immunohistochemistry (1:50-1:100)<br>Immunoprecipitation(1:10-1:50)<br>Western Blot (1:500-1:1000)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In 50mM Tris-Glycine, pH 7.4 (0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA) |
| **Storage Instruction** | Store at 4°C short term.<br>Aliquot and store at -20°C long term.<br>Avoid freeze-thaw cycles. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

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## Gene Info — CREB1

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|---|---|
| **Entrez GeneID** | 1385 |
| **Protein Accession#** | P16220 |
| **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 |

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| Other Designations | active transcription factor CREB\|cAMP-response element-binding protein-1\|transactivator protein |
|---|---|

## Pathway

- Antigen processing and presentation
- Melanogenesis
- Prostate cancer

## Disease

- Alcoholism
- Alzheimer disease
- 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

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- Inflammation
- Lymphoma
- Memory
- Metabolic Syndrome X
- Mood Disorders
- Neoplasms
- Osteoporosis
- Pattern Recognition
- Personality Inventory
- Psychiatric Status Rating Scales
- Psychomotor Performance
- Schizophrenia
- Schizophrenic Psychology
- Sleep Disorders
- Weight Gain

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