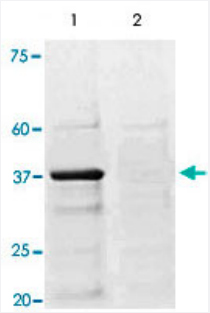
CREB1 (phospho S133) polyclonal antibody

Catalog # PAB12673 Size 100 ug

Applications



Immunoprecipitation

The tissue lysate derived from rat brain was immunoprecipitated by CREB1 (phospho S133) polyclonal antibody (Cat # PAB12673), then immuno-blotted by the CREB1 (phospho S133) polyclonal antibody (Cat # PAB12617) at 1 : 500 (lane 1), Lane 2 : negative control.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of CREB1.
Immunogen	Synthetic phosphopeptide corresponding to residues surrounding S133 of human CREB1.
Sequence	RPSYR
Host	Rabbit
Theoretical MW (kDa)	40
Reactivity	Human, Rat
Specificity	This antibody only recognizes ~40 KDa of human CREB1.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	Western Blot (0.1-1 ug/mL) ELISA (0.01-0.1 ug/mL) Immunoprecipitation (2-5 ug/mL) Immunohistochemistry (1:50) The optimal working dilution should be determined by the end user.

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Storage Buffer	In TBS, pH 7.2 (BSA, 10% Proclin300)
Storage Instruction	Store at -20°C. For long term storage store at -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot
- Immunohistochemistry
- Immunoprecipitation

  The tissue lysate derived from rat brain was immunoprecipitated by CREB1 (phospho S133) polyclonal antibody (Cat # PAB12673), then immuno-blotted by the CREB1 (phospho S133) polyclonal antibody (Cat # PAB12617) at 1 : 500 (lane 1), Lane 2 : negative control.
- Enzyme-linked Immunoabsorbent Assay

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

Publication Reference

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- Activation of cAMP-response-element-binding protein (CREB) after focal cerebral ischemia stimulates neurogenesis in the adult dentate gyrus.

  Zhu DY, Lau L, Liu SH, Wei JS, Lu YM.

  PNAS 2004 Jun; 101(25):9453.

  Application: WB-Ti, Rat, Rat brain

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

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- Dominance
- Edema
- Genetic Predisposition to Disease
- 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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