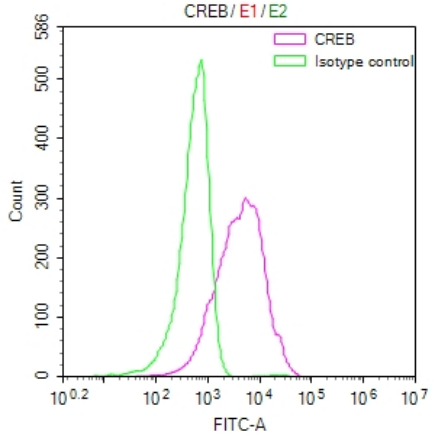
RecomAb™

CREB1 recombinant monoclonal antibody, clone 21E3

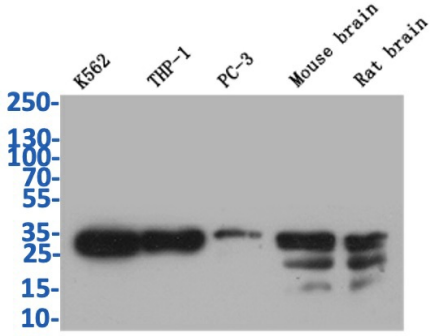
Catalog # RAB07781 Size 100 uL

Applications



Flow Cytometry

Overlay Peak curve showing Jurkat cells stained with CREB1 recombinant monoclonal antibody, clone 21E3 (red line) at 1:50.



Western Blot

Western Blot analysis of Lane 1: K562 whole cell lysate; Lane 2: THP-1 whole cell lysate; Lane 3: Mouse brain tissue lysate; Lane 4: Rat brain tissue lysate.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human, mouse and rat CREB1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human CREB1.
Theoretical MW (kDa)	Calculated MW: 36
Reactivity	Human, Mouse, Rat

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Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Affinity chromatography purification
Isotype	IgG
Recommend Usage	ELISA Flow Cytometry(1:50-1:200) Western Blot(1:500-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150 mM NaCl, 0.02% sodium azide and 50% glycerol)
Storage Instruction	Store at -20°C or -80°C. 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

- Flow Cytometry

  Overlay Peak curve showing Jurkat cells stained with CREB1 recombinant monoclonal antibody, clone 21E3 (red line) at 1:50.

- Enzyme-linked Immunoabsorbent Assay

- Western Blot

  Western Blot analysis of Lane 1: K562 whole cell lysate; Lane 2: THP-1 whole cell lysate; Lane 3: Mouse brain tissue lysate; Lane 4: Rat brain tissue lysate.

Gene Info — CREB1

Entrez GeneID	1385
Protein Accession#	P16220
Gene Name	CREB1
Gene Alias	CREB, MGC9284
Gene Description	cAMP responsive element binding protein 1
Omim ID	123810

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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

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

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- Disease Models
- 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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