



Magic™ Anti-CREB (Phospho S133) polyclonal antibody (CPBT-67907RC)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

This product is specific for rat cyclic AMP response element binding protein (CREB), when phosphorylated at serine 133. CREB is a member of the leucine zipper family of transcription factors, which is involved in a wide range of intracellular signalling processes. Phosphorylation of serine 133 has been demonstrated by several protein kinases, including protein kinase A (PKA), mitogen activated protein kinase (MAPK) and Ca²⁺ /calmodulin- dependent protein kinase (CaMK). This phosphorylation is required for CREB mediated transcription. Western Blotting detects a band of approximately 45kDa in rat hippocampus lysates that had been incubated in the presence of forskolin.

Specificity	CREB
Target	CREB
Immunogen	Synthetic phosphopeptide corresponding to an amino acid sequence within CREB which includes phosphorylated Ser133.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Rat, Bovine, Chicken, Dog, Human, Monkey, Mouse, Sheep, Xenopus, Zebrafish
Conjugate	Unconjugated
Applications	WB
Format	Purified IgG - liquid
Size	100 µl
Preservative	0.09% Sodium Azide

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	Creb1 cAMP responsive element binding protein 1 [Rattus norvegicus (Norway rat)]
Official Symbol	Creb1
Synonyms	CREB1; cAMP responsive element binding protein 1; Creb; cyclic AMP-responsive element-binding protein 1; CREB-1; Y protein; cAMP response element binding protein 1; cAMP-responsive element-binding protein 1; CREB;
Entrez Gene ID	81646
Protein Refseq	NP_112279.1
UniProt ID	P15337
Chromosome Location	9q32
Pathway	AKT phosphorylates targets in the nucleus; AMPK signaling pathway; Activated TLR4 signalling; Activation of NMDA receptor upon glutamate binding and postsynaptic events; Adaptive Immune System;
Function	DNA binding; RNA polymerase II activating transcription factor binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding; RNA polymerase II distal enhancer sequence-specific DNA binding