

## Product datasheet for **AM09298PU-N**

### CREB1 pSer133 Mouse Monoclonal Antibody [Clone ID: B1C4]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	B1C4
Applications:	ELISA
Recommended Dilution:	<b>Indirect ELISA:</b> The antibody is reactive to Serine133 phosphorylated Human CREB peptide and reactive to Serine133 phosphorylated Human CREB peptide conjugated with KLH or BSA. The suggested antigen coating quantity is 1 µg/ml of peptide/or peptide conjugating in pH 9.5 Carbonate buffer, 100 µl/well.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Phosphorylated peptide fragment of CREB (pSer133), conjugated with KLH
Specificity:	Reactive to serine133 phosphorylated Human CREB peptide fragment, and reactive to KLH or BSA conjugated Serine133 phosphorylated Human CREB peptide fragment. Not reactive to un-conjugated KLH or BSA.
Formulation:	0.01 M PBS, pH 7.0 without preservatives. State: Aff - Purified State: Lyophilized purified IgG fraction.
Reconstitution Method:	Restore with Double distilled water to adjust the final concentration to 1.0 mg/ml.
Purification:	Affinity Chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Upon receipt, store (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	cAMP responsive element binding protein 1
Database Link:	<a href="#">Entrez Gene 1385 Human P16220</a>



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<b>Background:</b>	Transcription factor CREB binds the cAMP response element (CRE) and activates transcription in response to a variety of extracellular signals including neurotransmitters, hormones, membrane depolarization, and growth or neurotrophic factors. Protein kinase A and the calmodulin-dependent protein kinase CaMKII stimulate CREB phosphorylation at Ser133, a key regulatory site controlling transcriptional activity. Phosphorylation at Ser133 is also mediated by p44/42 MAP kinase, p90RSK, p38 MAP kinase and MSK1. CREB appears to play an important role in learning and memory in both flies and mice.
<b>Synonyms:</b>	CREB-1
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	Antigen processing and presentation, Huntington's disease, Melanogenesis, Prostate cancer