



## Mouse Anti-Human p133-CREB Monoclonal Antibody Datasheet

**Product Name:** mAb anti-Human p133-CREB

**Clone No.:** A3A4

**Catalogue No.:** MO-P40003A

**Quantity:** 0.5 mg/vial

**Description:** Mouse monoclonal antibody against serine133 phosphorylated human cAMP response element-binding protein (p133-CREB)

**Purification:** Protein G affinity purified

**Product Type:** Primary antibody

**Target Protein:** Serine133 phosphorylated human cAMP response element-binding protein (p133-CREB).

**Immunogen:** Serine133 phosphorylated human CREB peptide fragment conjugated with KLH

**Fusion Myeloma:** Sp2/0-Ag14

**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.

**Species Reactivity:** Human, others not tested.

**Host / Isotype:** Mouse, IgG1 Kappa

**Formulation:** Lyophilized from a solution of 0.01M PBS, pH7.0

**Reconstitution:** Double distilled water is recommended to adjust the final concentration to 1.00mg/mL.

**Storage:** Store at -20°C. Avoid freeze and thaw cycles.

**Research Area:** Signal transduction, gene transcription

**Background:** cAMP response element-binding protein (CREB) is a transcription factor that regulates the transcription of a wide spectrum of genes in response to second messengers (cAMP and Ca<sup>++</sup>) and cell growth or stress signals. The primary binding sites of CREB on the promoter regions are cAMP response element (CRE) and calcium response element which have a common 5'-TGACGTCA-3' motif. CREB can be phosphorylated and activated by cAMP-dependent protein kinase A, calcium/calmodulin-dependent kinase, and kinases in the mitogen-activated kinase (MAPK) and extracellular signal-regulated kinase (ERK) signal cascades.

CREB plays an important role in neuroplasticity and memory formation by controlling the expression of c-fos, brain-derived neurotrophic factor, tyrosine hydrolase and many neuropeptides.

**Applications:** In indirect ELISA, the antibody is reactive to serine133 phosphorylated human CREB peptide and reactive to serine133 phosphorylated human CREB peptide conjugated with KLH or BSA. The peptide and the conjugates were coated at 1µg/ml in pH 9.5 carbonate buffer.

Other applications have not been evaluated.

**References:** If research is published using this product, please inform Anogen in order to cite the reference on this datasheet. Anogen will provide one unit of product in the same category as gratitude.

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