CREB (Phospho-Ser133) Polyclonal Antibody

ORDERING INFORMATION

Catalog No.: 43052

Format: 100ul at 1.0mg/ml in PBS (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Affinity-purified on phosphopeptide; non-phosphopeptide-reactive antibodies were removed by chromatography on non-phosphorylated peptide.

BACKGROUND

CREB (cAMP response element-binding protein) is a cellular transcription factor. It binds to certain DNA sequences called cAMP response elements (CRE), thereby increasing or decreasing the transcription of the downstream genes. Genes whose transcription is regulated by CREB include: *c-fos*, BDNF, tyrosine hydroxylase, numerous neuropeptides (such as somatostatin, enkephalin, VGF, corticotropin-releasing hormone), and genes involved in the mammalian circadian clock (PER1, PER2).

SPECIFICATION SUMMARY

Antigen: Peptide sequence that includes phosphorylation site of serine 133 (R-P-S(p)-Y-R) derived from human CREB and conjugated to KLH.

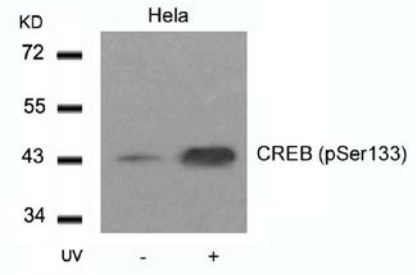
Accession no.: P16220, NP_004370.1

Host Species: Rabbit

Specificity: This antibody detects endogenous human, mouse, and rat CREB only when phosphorylated at serine 133.

APPLICATIONS

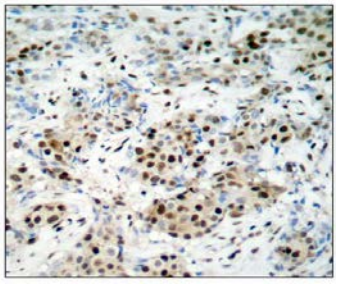
Western blotting: use at dilution of 1:500-1:1,000. A band of ~43kDa is detected.



Detection of CREB (phospho-Ser133) in HeLa cell extracts untreated or treated with UV.

These are recommended working dilutions. Enduser should determine optimal dilutions for their applications.

Immunohistochemistry: use at dilution of 1:50-1:100.



Detection of CREB (phospho-Ser133) in paraffin-embedded human breast carcinoma tissue.

DILUTION INSTRUCTIONS

Dilute in PBS or medium that is identical to that used in the assay system.

STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Can be stored at 4°C for short-term.

For in vitro investigational use only. Not intended for therapeutic or diagnostic applications.

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