CREB(Phospho-Ser133) Antibody

#11052

Catalog Number: 11052-1, 11052-2

Amount: 50μg/50μl, 100μg/100μl

Swiss-Prot No. : P16220

Form of Antibody: Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Storage/Stability: Store at -20℃/1 year

Immunogen: The antiserum was produced against synthesized phosphopeptide derived from human CREB around the phosphorylation site of serine 133 (R-P-Sp-Y-R).

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatogramphy using non-phosphopeptide corresponding to the phosphorylation site

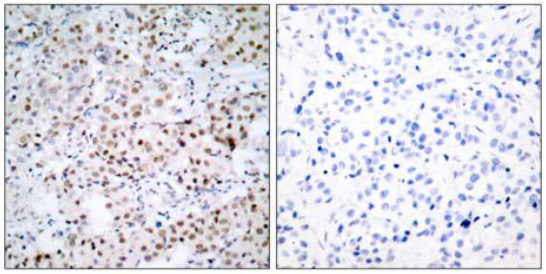
Specificity/Sensitivity: CREB (phospho-Ser133) antibody detects endogenous levels of CREB only when phosphorylated at serine 133, and it also detects the phosphorylated form of the CREB-related protein, ATF-1 at serine 63.

Reactivity: Human, Mouse, Rat

Applications:

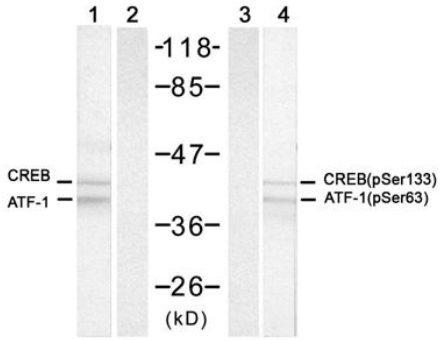
Predicted MW: 43kd

WB: 1:500~1:1000 IHC: 1:50~1:100



P-Peptide – +

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using CREB (phospho-Ser133) antibody (#11052).



PMA + + – +

Peptide – + – –

Western blot analysis of extracts from HeLa cells using CREB (Ab-133) antibody (#21052, Lane 1 and 2) and

CREB (phospho-Ser133) antibody (#11052, Lane 3 and 4)

Background :

This protein binds the cAMP response element (CRE), a sequence present in many viral and cellular promoters. CREB stimulates transcription on binding to the CRE. Transcription activation is enhanced by the TORC coactivators which act independently of Ser-133 phosphorylation. Implicated in synchronization of circadian rhythmicity

References：

Xing J, et al. (1998) Mol Cell Biol 18(4): 1946-55.
Tan Y, et al. (1996) EMBO J; 15(17): 4629-42.
Hao, M. et al. (1996) J. Biol. Chem. 271, 29380-29385.
Mayo LD, et al. (2001) Biol Chem; 276(27): 25184-9.