

9853 Pacific Heights Blvd. Suite D. San Diego, CA 92121, USA Tel: 858-263-4982

Email: info@abeomics.com

35-1051: Polyclonal Antibody to CREB (Phospho-Ser133)

Clonality: Polyclonal Application: WB,IHC

Reactivity: Human, Mouse, Rat

Gene : CREB1
Gene ID : 1385
Uniprot ID : P16220
Format : Purified

Alternative Name: CREB-1, CREB1 Isotype: Rabbit IgG

Immunogen Information: Peptide sequence around phosphorylation site of serine 133 (R-P-S(p)-Y-R) derived from

Human CREB.

Description

CREB1 is a transcription factor that is a member of the bZIP family of DNA binding proteins. It binds as a homodimer to the CRE (cAMP-Responsive Element), an octameric palindrome containing a conserved core sequence, 5-prime-TGACG-3-prime. It consists of two transcript variants encoding respective isoforms produced by alternate splicing. It is mapped to 2q32.3-q34 . It is phosphorylated by several protein kinases and induces transcription of genes in response to hormonal stimulation of the cAMP pathway. CREB1 is crucial for the consolidation of long-term conditioned fear memories, but not for encoding, storage, or retrieval of these memories. It is required for the stability of reactivated or retrieved conditioned fear memories . 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.

Product Info

Amount : 50 μl / 100 μl

Content: Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM

NaCl, 0.02% sodium azide and 50% glycerol.

Storage condition : Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid

repeated freeze and thaw cycles.

Application Note

Predicted MW: 43kd, Western blotting: 1:500~1:1000, Immunohistochemistry: 1:50~1:100

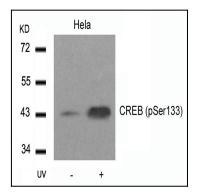


Figure 1: Western blot analysis of extracts from Hela cells untreated or treated with UV using CREB(Phospho-Ser133) Antibody 35-1051 .



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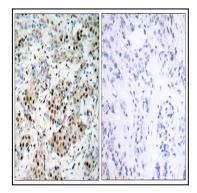


Figure 2: Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using CREB(Phospho-Ser133) Antibody 35-1051 (left) or the same antibody preincubated with blocking peptide(right).