## bs-20704R

# [ Primary Antibody ]

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# **CREB-1 Rabbit pAb**

DATASHEET -

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

**GenelD:** 1385 **SWISS:** P16220

Target: CREB-1

**Immunogen:** KLH conjugated synthetic peptide derived from human CREB-1:

51-120/341.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50%

Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated

freeze/thaw cycles.

Background: The ATF/CREB family consists of transcription factors that function

through binding to the cAMP responsive element (CRE) palindromic octanucleotide, TGACCTCA. The best characterized

members of this gene family include CREB-1, CREB-2, ATF-1,ATF-2,ATF-3 and ATF-4. these transcription factors share highly-related COOH terminal leucine zipper demerization and basic DNA bindings but are highly divergent in their amino terminal domains. Although each of the ATF/CREB proteins bind CREs in their homodimeric form, in cerain instances they also bind as

heterodimers, both within the ATF/CREB family and with members of the AP-1 transcription factor family. It has recentlybeen shown that protein kinase A-mediated CREB phosphorylation results in its

binding to a 265kDa nuclear protein designated CBP (CREB-binding protein), which may reprecent a CREB co-activator.

Applications: WB (1:500-2000)

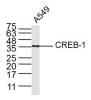
Flow-Cyt (1µg/Test)

Reactivity: Human, Mouse, Rat

Predicted 37 kDa MW.:

Subcellular Nucleus

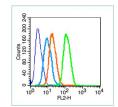
### **VALIDATION IMAGES**



Sample: A549 (Human) Lysate at 30 ug Primary: Anti-CREB-1 (bs-20704R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 37 kD Observed band size: 37 kD



Sample: U251(Human) Lysate at 30 ug Primary: Anti-CREB-1 (bs-20704R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 37 kD Observed band size: 37 kD



Blank control (blue line): Hela cells (fixed with 70% methanol (Overnight at 4°C) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C). Primary Antibody (green line): Rabbit Anti-phospho-CREB-1 antibody (bs-20704R), Dilution: 1µg/10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG. Secondary Antibody (white blue line): Goat antirabbit IgG-PE,Dilution: 1µg /test.

#### - SELECTED CITATIONS -

• [IF=3.173] Zuo D et al. Alcohol aggravates ketamineinduced behavioral, morphological and neurochemical alterations in adolescent rats: The involvement of CREBrelated pathways. Behav Brain Res. 2018 Sep 3;349:80-90. WB; Rat. 29738804