

## ABG377154: CREB1 Antibody (D-12)

**Clonality :** Monoclonal  
**Clone Name :** D-12  
**Application :** IP,ELISA,IHC,WB,IF  
**Reactivity :** Rat,Mouse,Human  
**Isotype :** IgG2a kappa light chain

### Description

CREB-1 Antibody (D-12) is an IgG<sub>2a</sub>  $\kappa$  mouse monoclonal CREB-1 antibody (also designated CREB antibody or CREB1 antibody) that detects the CREB-1 protein of mouse, rat and human origin by WB, IP, IF, IHC(P) and ELISA. CREB-1 Antibody (D-12) is available as both the non-conjugated anti-CREB-1 antibody form, as well as multiple conjugated forms of anti-CREB-1 antibody, including agarose, HRP, PE, FITC and multiple Alexa Fluor®

conjugates. Eukaryotic gene transcription is regulated by sequence-specific transcription factors that bind modular cis-acting promoter and enhancer elements. The ATF/CREB transcription factor family binds the palindromic cAMP response element (CRE) octanucleotide TGACGTCA. The ATF/CREB family includes CREB-1, CREB-2 (also designated ATF-4), ATF-1, ATF-2 and ATF-3. This family of proteins contains highly divergent N-terminal domains, but shares a C-terminal leucine zipper for dimerization and DNA binding. Although CREB can bind to DNA in an unphosphorylated state, it cannot activate transcription. Phosphorylation of CREB on Ser 133 by protein kinase A facilitates its interaction with the CREB-binding protein (CBP) and activates the basal transcription complex. CREB functions in neoglucogenesis through interactions with the nuclear coactivator PGC-1. CREB may play a role in the pathogenesis of type II diabetes and dilated cardiomyopathy.

### Product Info

**Amount :** 200  $\mu$ g/ml  
**Content :** Each vial contains 200  $\mu$ g IgG2a kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin  
**Amino Acid :** 254-327

### Application Note

CREB1 Antibody (D-12) is recommended for detection of CREB-1A, CREB-1B, CREM and ATF-1 of mouse, rat, human and avian origin by WB, IP, IF, IHC(P) and ELISA; also reactive with additional species, including and equine, canine, bovine, porcine and avian

Anti-CREB1 Antibody (D-12) is available conjugated to agarose for IP; HRP for WB, IHC(P) and ELISA; and to either phycoerythrin or FITC for IF, IHC(P) and FCM