

bsm-34317R**[Primary Antibody]**

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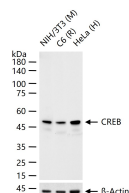
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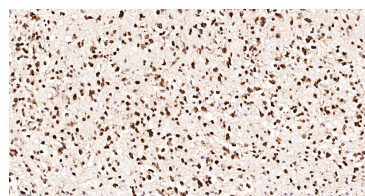
CREB Recombinant Rabbit mAb**— DATASHEET —****Host:** Rabbit**Isotype:** IgG**Clonality:** Recombinant**CloneNo.:** 14D4**GeneID:** 1385**SWISS:** P16220**Target:** CREB**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml

Storage: pH7.4, 150mM NaCl, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

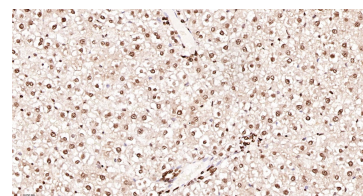
Background: The ATF/CREB family consists of transcription factors that function through binding to the cAMP responsive element (CRE) palindromic octanucleotide, TGACCTCA. The best characterized members of this gene family include CREB-1, CREB-2, ATF-1, ATF-2, ATF-3 and ATF-4. These transcription factors share highly-related COOH terminal leucine zipper dimerization 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 certain instances they also bind as heterodimers, both within the ATF/CREB family and with members of the AP-1 transcription factor family. It has recently been shown that protein kinase A-mediated CREB phosphorylation results in its binding to a 265kDa nuclear protein designated CBP (CREB-binding protein), which may represent a CREB co-activator.

Applications: WB (1:500-2000)**IHC-P** (1:200-800)**IHC-F** (1:200-800)**IF** (1:200-800)**Flow-Cyt** (1:100-200)**Reactivity:** Human, Mouse, Rat**Predicted MW.:** 37 kDa**Observed MW.:** 47 kDa**Subcellular Location:** Nucleus**— VALIDATION IMAGES —**

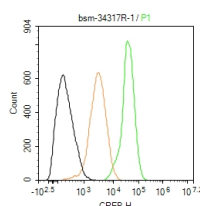
25 µg total protein per lane of various lysates (see on figure) probed with CREB monoclonal antibody, unconjugated (bsm-34317R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded Human Glioblastoma; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with CREB Monoclonal Antibody, Unconjugated (bsm-34317R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Rat Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with CREB Monoclonal Antibody, Unconjugated (bsm-34317R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



The HepG2 (H) cells were fixed with 4% PFA (10 min at r.t.) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C, the cells then were incubated in 5% BSA to block non-specific protein-protein interactions (30 min at r.t.), followed by secondary antibody incubation for 40 min at room temperature. Primary Antibody

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

(green);Rabbit Anti-CREB antibody
(bsm-34317R,1:100); Isotype Control (orange);
Rabbit IgG (bs-0295P). Blank control (black):
PBS. Acquisition of 20,000 events was
performed.

— SELECTED CITATIONS —

- **[IF=8.3]** Zhen-Ling Liu. et al. Tongmai Yishen Formula alleviates post-stroke depression by restoring neuronal homeostasis in the lateral habenula via the ITPKA signaling pathway. PHYTOMEDICINE. 2026 Jan;;157866 WB ;Human,Rat. 41655549
- **[IF=4.6]** Feng Xian Hu. et al. TRPC6 Mediates Neuronal Hyperexcitability in the Lateral Habenula to Drive Trigeminal Neuralgia-Associated Anxiety. NEUROPHARMACOLOGY. 2025 Dec;;110818 WB ;Mouse. 41478600
- **[IF=3.1]** Kexin Sun. et al. Neuroinflammatory mechanism of Volatile oil from Acori graminei Rhizoma in tourette syndrome: GC-MS, network pharmacology and experimental validation. J PHARMACEUT BIOMED. 2025 Jul;;117057 IHC,WB ;Rat. 40712238