Order: 0571-88177686
Fax: 0571-88177681
Support: support@biolynx.cn

Rev.: 2018/12/5

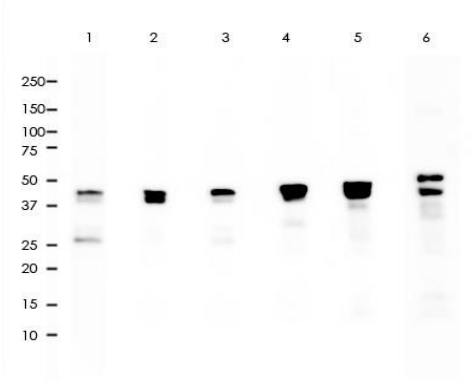
CREB1
Recombinant Rabbit Monoclonal Antibody
Product Datasheet

Catalog# BX00083
Clone# RR687

Predicted Molecular Wt: 37kDa
Species Cross-reactivity: Human Mouse Rat Bovine
Species cross-reactivity determined by WB
Applications: WB IHC-P IF/ICC FC IP

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: P16220

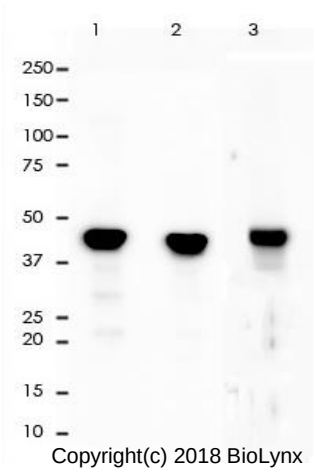
Background:
Phosphorylation-dependent transcription factor that stimulates transcription upon binding to the DNA cAMP response element (CRE), a sequence present in many viral and cellular promoters. Transcription activation is enhanced by the TORC coactivators which act independently of Ser-133 phosphorylation. Involved in different cellular processes including the synchronization of circadian rhythmicity and the differentiation of adipose cells.



All lanes: Anti-CREB1 antibody at 1:1,000 dilution
Predicted MW: 37 kDa
Observed MW: 40 kDa
Lane 1: Hela
Lane 2: A431
Lane 3: HT-29
Lane 4: HepG2
Lane 5: Molt-4
Lane 6: SH SY5Y
Lysates at 10 µg per lane
2nd Ab:
GAR HRP(H+L) 1:5,000

Immunogen:
A synthetic peptide corresponding to residues aa200-300 of human CREB1 was used as an immunogen.

Storage Buffer:
PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.
Storage conditions:
-20°C.
Storage instructions:
Shipped on blue ice. Upon delivery, aliquot, and store at -20°C. Avoid freeze / thaw cycles.
Recommended Dilutions:
WB: 1:1,000 - 1:2,000
IHC-P: 1:12,000 - 1:24,000
IF/ICC: 1:10,000 - 1:20,000
FC: 1:200 - 1:1,000
IP: 1:50



All lanes: Anti-CREB1 antibody at 1:1,000 dilution

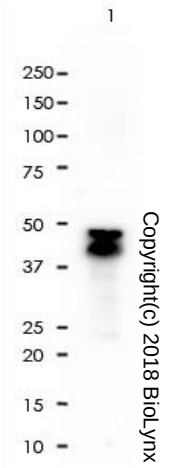
Predicted MW: 37 kDa
Observed MW: 40 kDa

Lane 1: Mu Kidney
Lane 2: Mu Liver
Lane 3: Rat Kidney

Lysates at 10 µg per lane
2nd Ab:
GAR HRP(H+L) 1:5,000

Background References:
1. Pan B et al. Sci Rep 6:30040 (2016).

2. Snow WM et al. Front Mol Neurosci 8:70 (2015).



All lane: Anti-CREB1 antibody at 1:5,000 dilution

Predicted MW: 37 kDa
Observed MW: 40 kDa

Lane 1: MDBK

Lysate at 10 µg per lane
2nd Ab:
GAR HRP(H+L) 1:5,000
Exposure: 50s

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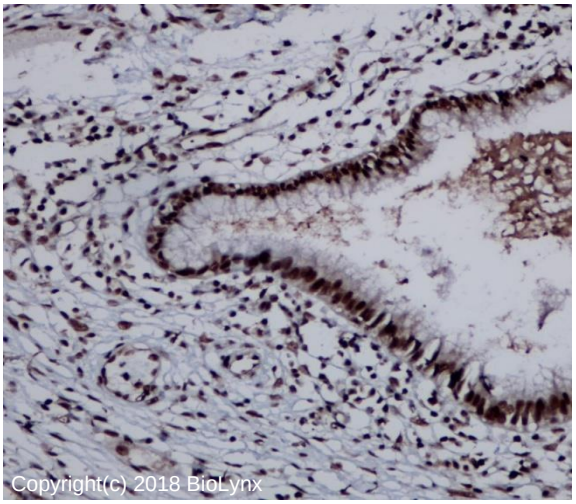
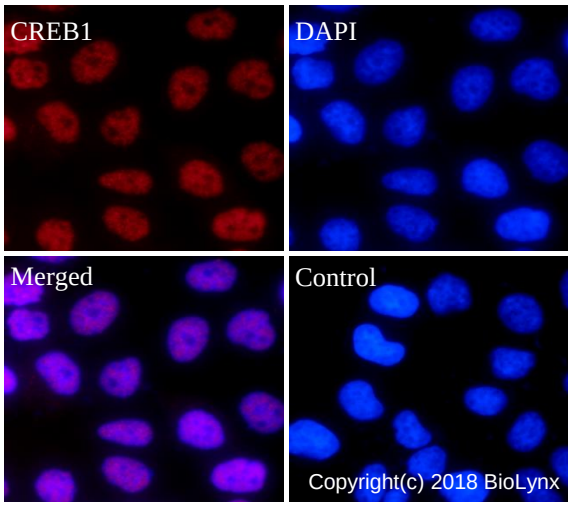
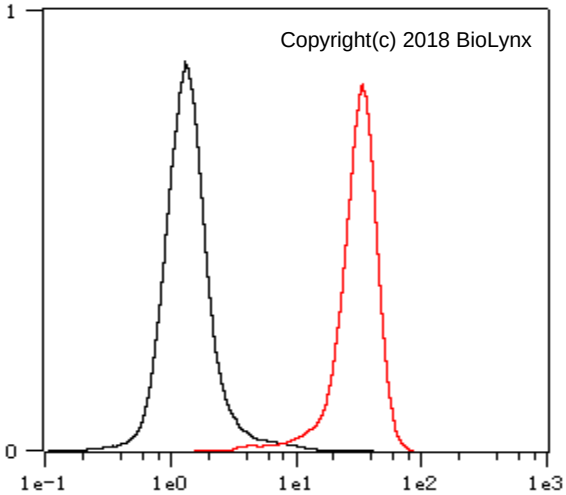


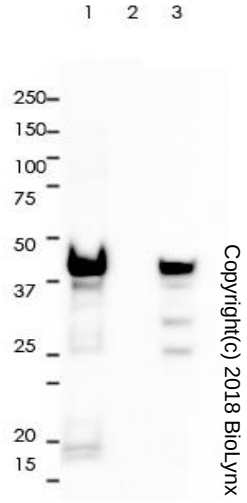
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of cervix uteri tissue labelling CREB1 with RR687 at 1:12,000. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0.



RR687 staining CREB1 in Hela cells by IF/ICC (immunofluorescence/immunocytochemistry). Cells were fixed with paraformaldehyde, permeabilized with 0.1% Triton X-100 and blocked with 10% goat serum for half an hour at room temperature. Samples were incubated with primary antibody (1:20,000) at 4°C. An Alexa Fluor® 594-conjugated Goat Anti-Rabbit IgG polyclonal was used as the secondary antibody (1:500). DAPI (blue) was used as the nuclear counter stain. Control: PBS and secondary antibody, An Alexa Fluor® 488-conjugated Goat Anti-Rabbit IgG (1:500).



Overlay histogram showing Hela cells stained with RR687 (Red). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% TritonX-100 for 15 min. The cells were then incubated in the antibody (RR687, 1:1,000 dilution) in 1x PBS/1% BSA for 30 min at room temperature. The secondary antibody used was a Goat Anti-Rabbit Alexa Fluor® 488 (IgG H+L) at 1:2,000 dilution for 20 min at room temperature. Unlabelled sample (Black) was used as a control.



CREB1 was immunoprecipitated from 0.4mg of Hela whole cell lysate with RR687 at 1:50 dilution.
2nd Ab:
GAR HRP for IP 1:500

Lane 1: RR687 IP in Hela whole cell lysate
Lane 2: PBS instead of RR687 in Hela whole cell lysate
Lane 3: Hela whole cell lysate, 10 µg (input)

Exposure: 120s

Product QC'd by:

For research use only. Not for use in diagnostic or therapeutic applications.