DATASHEET

CREB1 Rabbit Monoclonal Antibody(ARA794)

CAT. NO. ARA6581

KEY FEATURES

Target	CREB1	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat, Bovine	Clonality	Monoclonal
Applications	WB,IHC,IF/ICC,FC,IP	Conjugation	Unconjugated
Storage	at-20°C		

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.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:1000-1:2000
IHC	1:12000-1:24000
IF/ICC	1:10000-1:20000
FC	1:200-1:1000
IP	1:50

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Rabbit Monoclonal Antibody to CREB1
Antibody Type	Primary antibody
Predicted MW	37kDa
Immunogen	A synthetic peptide corresponding to residues aa200- 300 of human CREB1 was used as an immunogen.
Purification	ProA affinity purified IgG
Form / Buffer	PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.69%.
Alternative Names	Cyclic AMP-responsive element-binding protein 1; CREB-1; cAMP-responsive element-binding protein 1
Gene Symbol	CREB1
Entrez Gene	1385(Human)
Swissprot ID	P16220

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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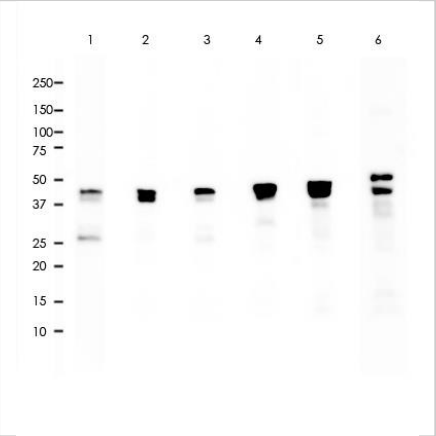
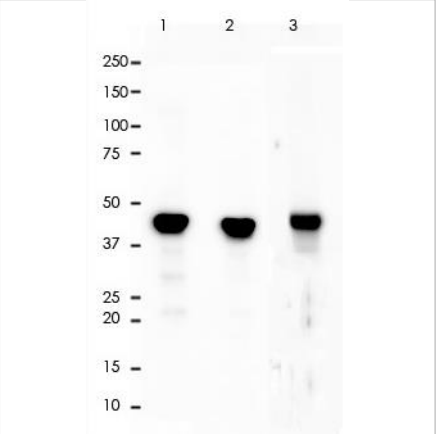
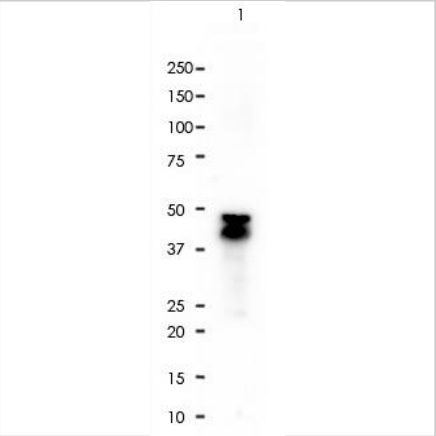


All lanes: Anti-CREB1 antibody at 1:1,000 dilution Predicted MW: 37 kDa Observed MW: 40 kDa Lane 1: Hela Lane 2: A431 Lane 3: HT-29 Lane 4: HepG2 Lane 5: Molt-4 Lane 6: SH SY5Y Lysates at 10 µg per lane 2nd Ab: GAR HRP(H+L) 1:5,000



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



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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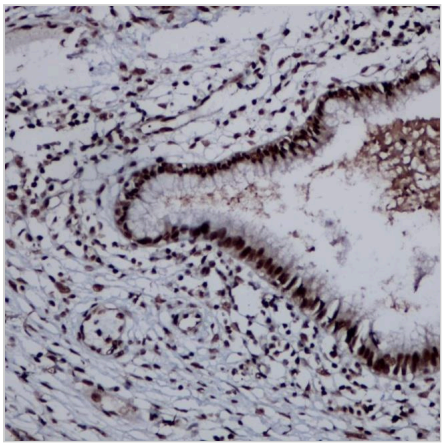
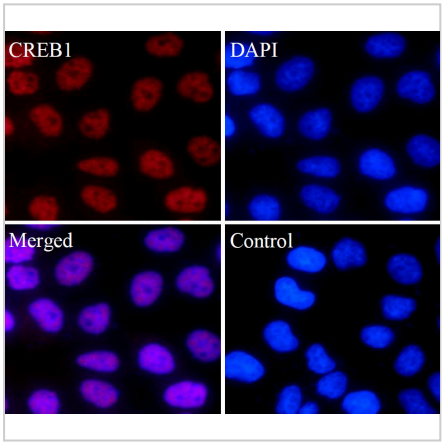


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of cervix uteri tissue labelling CREB1 with RR6887 at 1:12,000. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0.



ARA794 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).

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.

More information: www.arexbio.com