



CREB-1 Polyclonal Antibody

Catalog No	YP-Ab-01618
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	CREB1
Immunogen	The antiserum was produced against synthesized peptide derived from human CREB. AA range:100-149
Specificity	CREB-1 Polyclonal Antibody detects endogenous levels of CREB-1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/40000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	cAMP-responsive element-binding protein 1;CREB;CREB 1;CREB-1;Cyclic AMP-responsive element-binding protein 1;CREB1
Observed Band	37kD
Calculated Molecular Weight	37kD
Cell Pathway	Nucleus .
Tissue Specificity	Eye,Placenta,Spleen,Testis,
Function	disease:A chromosomal aberration involving CREB1 is associated with angiomatoid fibrous histiocytoma (AFH) [MIM:612160]. Translocation t(2;22)(q33;q12) with CREB1 generates a EWSR1/CREB1 fusion gene that is most common genetic abnormality in this tumor type.,function:This protein binds the cAMP response element (CRE), a sequence present in many viral and cellular promoters. CREB stimulates transcription on binding to the CRE. Transcription activation is enhanced by the TORC coactivators which act independently of Ser-133 phosphorylation. Implicated in synchronization of circadian rhythmicity., PTM:Stimulated by phosphorylation. Phosphorylation of both Ser-133 and Ser-



142 in the SCN regulates the activity of CREB and participates in circadian rhythm generation. Phosphorylation of Ser-133 allows CREBBP binding (By similarity). Phosphorylated upon DNA damage, probably by ATM or ATR., similarit

Background

This gene encodes a transcription factor that is a member of the leucine zipper family of DNA binding proteins. This protein binds as a homodimer to the cAMP-responsive element, an octameric palindrome. The protein is phosphorylated by several protein kinases, and induces transcription of genes in response to hormonal stimulation of the cAMP pathway. Alternate splicing of this gene results in several transcript variants encoding different isoforms. [provided by RefSeq, Mar 2016],

matters needing attention

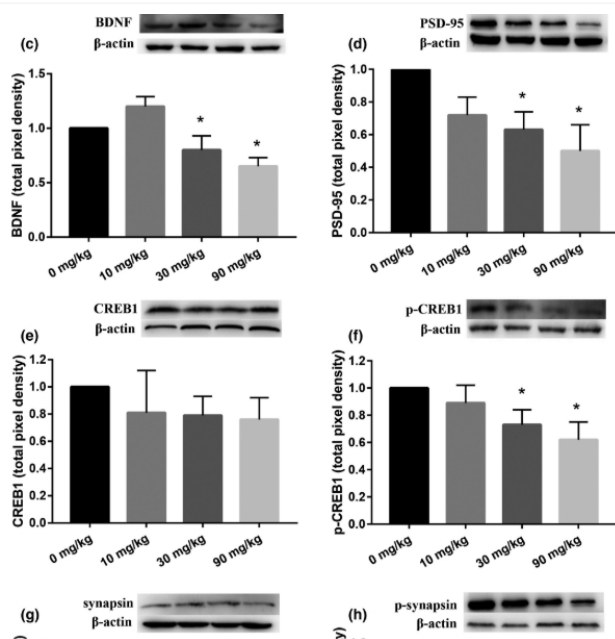
Avoid repeated freezing and thawing!

Usage suggestions

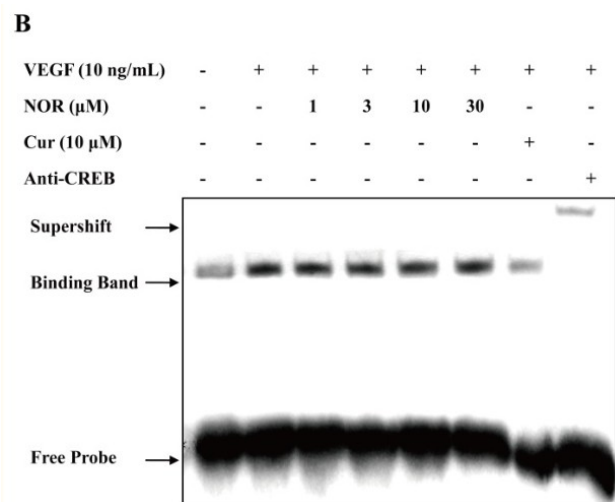
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



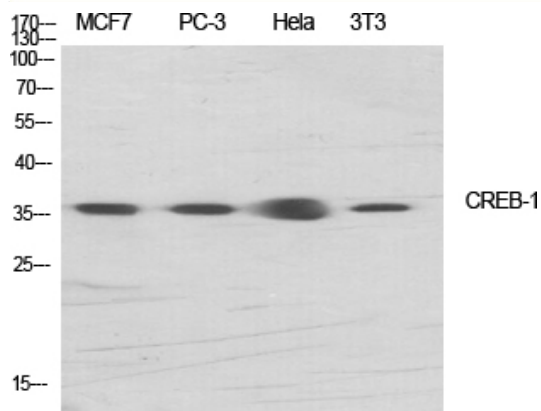
Products Images



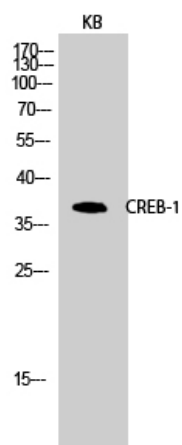
Wang, Yue, et al. "Fetal exposure to dichloroacetic acid and impaired cognitive function in the adulthood." *Brain and Behavior* 10.10 (2020): e01801.



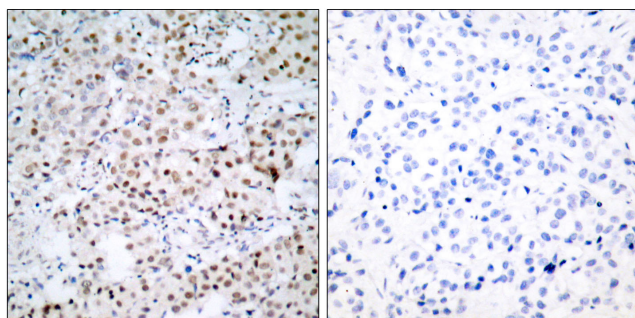
Lu, Qian, et al. "Norisoboldine suppresses VEGF-induced endothelial cell migration via the cAMP-PKA-NF-κB/Notch1 pathway." *PloS one* 8.12 (2013): e81220.



Western Blot analysis of various cells using CREB-1 Polyclonal Antibody diluted at 1:1000



Western Blot analysis of KB cells using CREB-1
Polyclonal Antibody diluted at 1:1000



Immunohistochemistry analysis of paraffin-embedded
human breast carcinoma tissue, using CREB Antibody.
The picture on the right is blocked with the synthesized
peptide.