

Anti-CREB antibody ab31387

★★★★★ [4 Abreviews](#) [63 References](#) [3 图像](#)

概述

产品名称	Anti-CREB抗体
描述	兔多克隆抗体to CREB
宿主	Rabbit
特异性	Immunogen has 92% alignment to ATF-1
经测试应用	适用于: WB, IHC-P
种属反应性	与反应: Human
免疫原	Synthetic peptide (Human) - non-phosphopeptide derived from human CREB around the phosphorylation site of Serine 133.
常规说明	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
存储溶液	<p>pH: 7</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituents: PBS, 50% Glycerol, 0.87% Sodium chloride</p>
纯度	Without Mg ²⁺ and Ca ²⁺
克隆	Immunogen affinity purified
同种型	多克隆
	IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab31387于以下的经测试应用

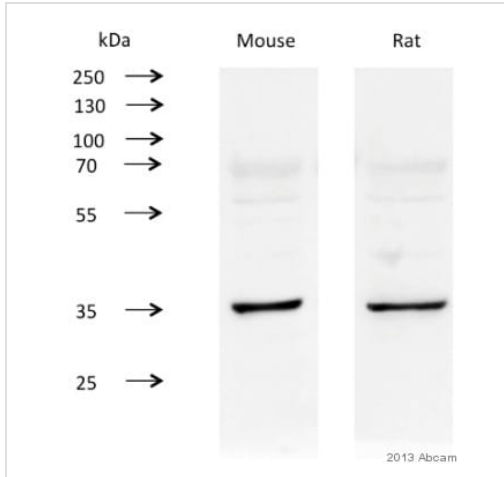
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★★ (1)	1/500 - 1/1000. Predicted molecular weight: 37 kDa.
IHC-P		Use at an assay dependent concentration.

靶标

功能	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.
疾病相关	Defects in CREB1 may be a cause of angiomatoid fibrous histiocyoma (AFH) [MIM:612160]. A distinct variant of malignant fibrous histiocyoma that typically occurs in children and adolescents and is manifest by nodular subcutaneous growth. Characteristic microscopic features include lobulated sheets of histiocyte-like cells intimately associated with areas of hemorrhage and cystic pseudovascular spaces, as well as a striking cuffing of inflammatory cells, mimicking a lymph node metastasis. Note=A chromosomal aberration involving CREB1 is found in a patient with angiomatoid fibrous histiocyoma. Translocation t(2;22)(q33;q12) with CREB1 generates a EWSR1/CREB1 fusion gene that is most common genetic abnormality in this tumor type.
序列相似性	Belongs to the bZIP family. Contains 1 bZIP domain. Contains 1 KID (kinase-inducible) domain.
翻译后修饰	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. Sumoylated by SUMO1. Sumoylation on Lys-304, but not on Lys-285, is required for nuclear localization of this protein. Sumoylation is enhanced under hypoxia, promoting nuclear localization and stabilization.
细胞定位	Nucleus.

图片



Western blot - Anti-CREB antibody (ab31387)
This image is courtesy of an anonymous Abreview

All lanes : Anti-CREB antibody (ab31387) at 1/1000 dilution

Lane 1 : Mouse primary hippocampal neurons whole cell lysate

Lane 2 : Rat primary hippocampal neurons whole cell lysate

Lysates/proteins at 30 µg per lane.

Secondary

All lanes : Undiluted HRP-conjugated Goat anti-rabbit IgG polyclonal

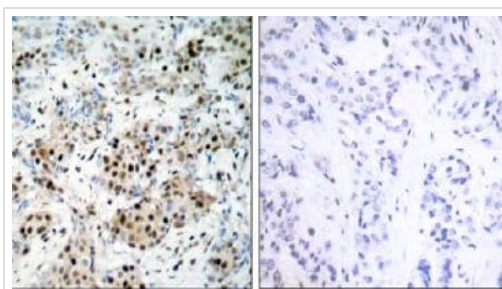
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 37 kDa

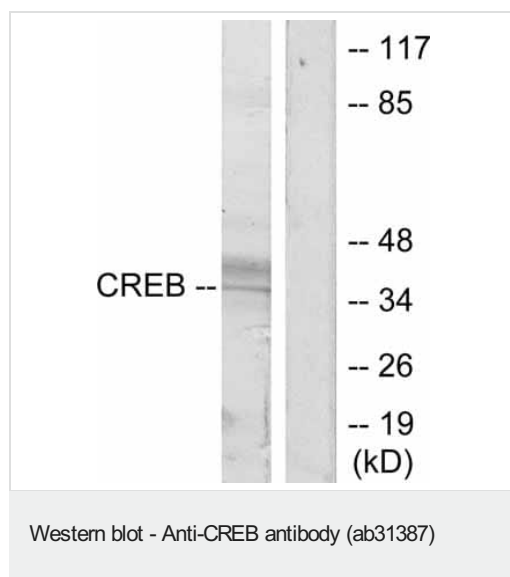
Observed band size: 37 kDa

Exposure time: 10 seconds



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CREB antibody (ab31387)

Immunohistochemical analysis of paraffin embedded breast carcinoma tissue sections, using 1/50 ab31387. Left: Untreated sample; Right: Sample treated with synthesized peptide (negative control).



Lane 1 : Anti-CREB antibody (ab31387) at 1/500 dilution

Lane 2 : Anti-CREB antibody (ab31387) at 1/500 dilution (treated with synthesized peptide)

All lanes : HeLa cell extract

Predicted band size: 37 kDa

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