

CREB(Phospho-Ser129) Antibody

Catalog No: #11273

Package Size: #11273-1 50ul #11273-2 100ul

Description

Product Name	CREB(Phospho-Ser129) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Applications	WB IHC
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of CREB only when phosphorylated at serine 129.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of serine 129 (I-L-S(p)-R-R) derived from Human CREB.
Conjugates	Unconjugated
Target Name	CREB
Modification	Phospho
Other Names	CREB-1; CREB1;
Accession No.	Swiss-Prot: P16220NCBI Protein: NP_004370.1
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

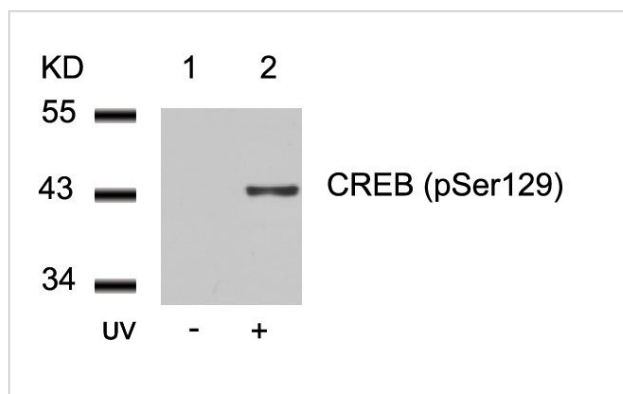
Application Details

Predicted MW: 43kd

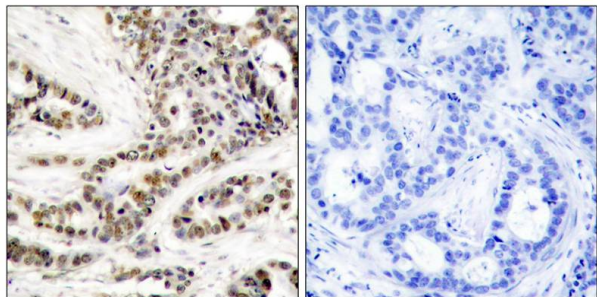
Western blotting: 1:500~1:1000

Immunohistochemistry: 1:50~1:100

Images



Western blot analysis of extracts from 293 cells untreated(lane 1) or treated with UV(lane 2) using CREB(Phospho-Ser129) Antibody #11273.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using CREB(Phospho-Ser129) Antibody #11273(left) or the same antibody preincubated with blocking peptide(right).

Background

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.

Chrystelle V. Garat, et al. (2006) Mol. Cell. Biol ; 26: 4934 - 4948.

Lilah Rothem, et al. (2004) Mol. Pharmacol ; 66: 1536 - 1543.

Darren R. Tyson, et al. (2002) Endocrinology; 143: 674.

Kyung-Woo Park, et al. (2003) Arterioscler. Thromb. Vasc. Biol ; 23: 1364.

Published Papers

el at., Icarin reduces high glucose?Induced endothelial progenitor cell dysfunction via Inhibiting the p38/CREB pathway and activating the Akt/eNOS/NO pathway. In Exp Ther Med on 2019 Dec by Chen S, Wang Z, et al..PMID:31772646, , (2019)

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el at., Small Molecule Inhibitors Targeting Gα i 2 Protein Attenuate Migration of Cancer Cells. In Cancers (Basel) on 2020 Jun 19 by Silvia Caggia, Subhasish Tapadar, et al..PMID: 32575572, , (2020)

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el at., Up-regulation of astrocyte excitatory amino acid transporter 2 alleviates central sensitization in a rat model of chronic migraine. In J Neurochem on 2020 Nov by Xue Zhou, Jie Liang, et al..PMID:31872442, , (2020)

[PMID:31872442](#)

Liu Min;Wang Rong;Yu Chun-Yue;Shi Bi-Ying;Shi Shan-Shan;Sun Ya-Nan;Zou Chun-Ming;Wang Qi;Wei Tai-Ming;Zhang Te-li el at., Saikosaponin a alleviates depressive-like behavior by regulating the BDNF-TrkB-CREB signaling pathway in a mouse model of chronic unpredictable mild stress, , (2024)

[PMID:](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.