

CREB Antibody

Catalog No: #21052



Package Size: #21052-1 50ul #21052-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Description

Product Name	CREB Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Applications	WB;IHC
Species Reactivity	Human;Mouse
Specificity	The antibody detects endogenous level of total CREB protein and it also detects the CREB-related protein ATF-1.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa. 131~135 (R-P-S-Y-R) derived from Human CREB.
Conjugates	Unconjugated
Target Name	CREB
Other Names	CREB-1; CREB1;
Accession No.	Swiss-Prot: P16220NCBI Protein: NP_004370.1
Calculated MW	35kDa
SDS-PAGE MW	43kDa
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.

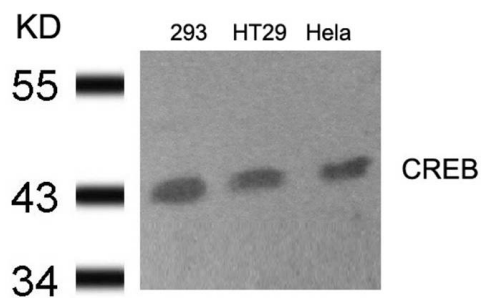
Application Details

Predicted MW: 43kd

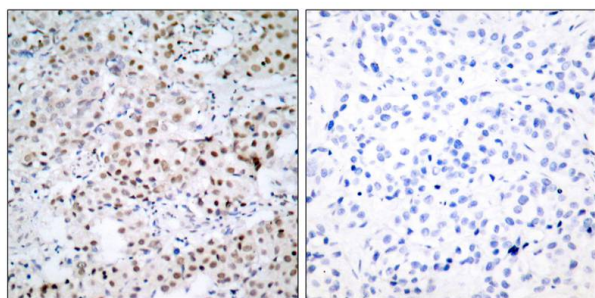
Western blotting: 1:500~1:1000

Immunohistochemistry: 1:50~1:100

Images



Western blot analysis of extracts from 293, HT29 and HeLa cells using CREB(Ab-133) Antibody #21052.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using CREB(Ab-133) Antibody #21052(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.

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Tan Y, et al. (1996) *EMBO J*; 15(17): 4629-42.

Hao, M. et al. (1996) *J. Biol. Chem.* 271, 29380-29385.

Mayo LD, et al. (2001) *Biol Chem*; 276(27): 25184-9.

Lu, H. et al. (1997) *Mol. Cell. Biol.* 17, 5923-5934.

Published Papers

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[PMID:29978503](#)

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el at., Lithium chloride administration prevents spatial learning and memory impairment in repeated cerebral ischemia-reperfusion mice by depressing apoptosis and increasing BDNF expression in hippocampus. In *Behav Brain Res*. On 2015 Sep 15 by Fan M, Jin W et al.. PMID:26031381 , , (2015)

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el at., Hydrogen sulfide decreases ϵ -Y-adrenergic agonist-stimulated lung liquid clearance by inhibiting ENaC-mediated transepithelial sodium

absorption. In Am J Physiol Regul Integr Comp Physiol on 2015 Apr 1 by Alisa M Agn0 , Jan-Peter Baldin, et al..PMID: 25632025, , (2015)

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el at., Connexin Hemichannels Contribute to the Activation of cAMP Signaling Pathway and Renin Production. In Int J Mol Sci on 2020 Jun 23 by Jingru Hong,

Jian Yao,et al..PMID:32585970, , (2020)

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Alisa M. Agne;JanPeter Baldin;Audra R. Benjamin;Maria C. Orogo-Wenn;Lukas Wichmann;Kenneth R. Olson;Dafydd V. Walters;Mike Althaus el at., Hydrogen sulfide decreases β -adrenergic agonist-stimulated lung liquid clearance by inhibiting ENaC-mediated transepithelial sodium absorption, , (2015)

[PMID:](#)

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