

CREB(Ab-133) Antibody

Catalog No: #21052

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

Description

Product Name	CREB(Ab-133) 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	Hu Ms
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
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.

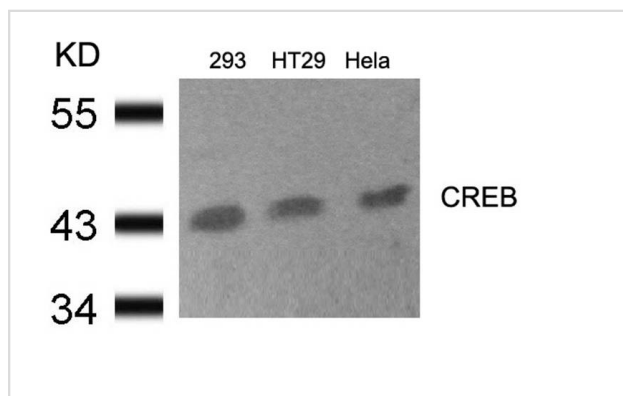
Application Details

Predicted MW: 43kd

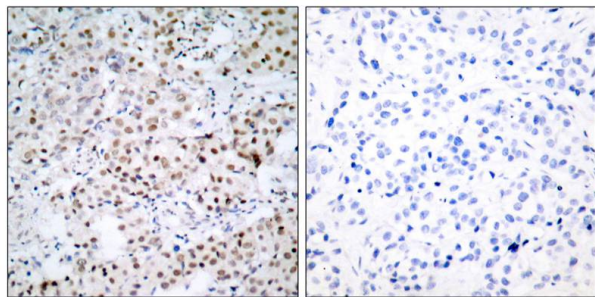
Western blotting: 1:500~1:1000

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.

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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.