

Anti-CREB-1 (p43) (RABBIT) Antibody - 100-401-195
Code: 100-401-195

Size: 100 µL

Product Description: Anti-CREB-1 (p43) (RABBIT) Antibody - 100-401-195

Concentration: 2.56 mg/ml by UV absorbance at 280 nm

PhysicalState: Liquid (sterile filtered)

Label	Unconjugated
Host	Rabbit
Gene Name	CREB1
Species Reactivity	human, mouse, rat
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Stabilizer	None
Preservative	0.01% (w/v) Sodium Azide
Storage Condition	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Synonyms	rabbit anti-CREB1 Antibody, rabbit anti-p43 antibody, Cyclic AMP-responsive element-binding protein 1, cAMP-responsive element-binding protein 1, CREB-1, CREB1, p43
Application Note	Anti-CREB-1 Antibody is suitable for use in SDS, Western Blot, and ELISA assays. Specific conditions for reactivity should be optimized by the end user.
Background	Anti CREB-1 Antibody recognizes CREB (cAMP response element-binding), a cellular transcription factor. CREB binds to certain DNA sequences called cAMP response elements (CRE), thereby increasing or decreasing the transcription of the downstream genes. CREB was first described in 1987 as a cAMP-responsive transcription factor regulating the somatostatin gene. Genes whose transcription is regulated by CREB include: c-fos, the neurotrophin BDNF (Brain-derived neurotrophic factor), tyrosine hydroxylase, and many neuropeptides (such as somatostatin, enkephalin, VGF, and corticotropin-releasing hormone). CREB is closely related in structure and function to CREM (cAMP response element modulator) and ATF-1 (activating transcription factor-1) proteins. CREB proteins are expressed in many animals, including humans. CREB has a well-documented role in neuronal plasticity and long-term memory formation in the brain.
Purity And Specificity	Anti-CREB-1 was prepared from monospecific antiserum by delipidation and immunoabsorption against an E.coli lysate immobilized on agarose beads. Anti-CREB-1 (p43) may react non-specifically with other proteins. A partial cross-reactivity is observed against CREM-1 protein.
Assay Dilutions	User Optimized
ELISA	1:5,000 - 1:25,000
Gel Shift Dilution	0.5 to 1.0 uL per assay
Western Blot	1:500 - 1:1,000
Other Assays	User Optimized
Expiration	Expiration date is one (1) year from date of opening.
Immunogen	CREB-1 (p43) peptide corresponding to a region near the N-terminus of the human protein, conjugated to Keyhole Limpet Hemocyanin (KLH).
General Reference	Moreno, C.S., Beresford, G., Louis-Plence, P., Morris, A.C. and Boss, J.M. (1999) CREB regulates MHC class II expression in a CIITA dependent manner. <i>Immunity</i> 10: 143-151.
Specific Reference	Philp A, Chen A, Lan D, Meyer GA, Murphy AN, Knapp AE, Olfert IM, McCurdy CE, Marcotte GR, Hogan MC, Baar K, Schenk S. (2011) Sirtuin 1 (SIRT1) deacetylase activity is not required for mitochondrial biogenesis or peroxisome proliferator-activated receptor-gamma coactivator-1alpha (PGC-1alpha) deacetylation following endurance exercise. <i>J Biol Chem.</i> 2011 Sep 2;286(35):30561-70.
Related Products	

600-401-270

Anti-CREB pS133 (RABBIT) Antibody - 600-401-270

600-401-493	Anti-ATF3 (RABBIT) Antibody - 600-401-493
611-1302	Anti-RABBIT IgG (H&L) (GOAT) Antibody Peroxidase Conjugated - 611-1302
K-500	Antibody and Blocking Solution Starter PackK-500

Related Links

UniProtKB - P16220

<http://www.uniprot.org/uniprot/P16220>

NCBI - CAG28545.1

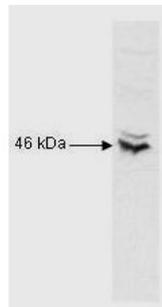
<http://www.ncbi.nlm.nih.gov/protein/CAG28545.1>

GeneID - 1385

Images

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Anti-CREB is shown to detect CREB-1 present in Raji B cell nuclear extract. Detection occurs using a 1:1,000 dilution of antibody followed by a 1:5,000 dilution of HRP Goat-a-Rabbit IgG with visualization via ECL. Film exposure was approximately 1'. Other detection systems will yield similar results.



Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.