

Datasheet for 600-401-MQ0S**CREBBP Antibody****Overview**

Description:	Anti-CREBBP (RABBIT) Antibody - 600-401-MQ0S
Item No.:	600-401-MQ0S
Size:	25 µL
Applications:	ELISA, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	CREBBP (CREB Binding Protein) is ubiquitously expressed. It acetylates histones, giving a specific tag for transcriptional activation and acetylates non-histone proteins, like NCOA3 and FOXO1. It binds specifically to phosphorylated CREB and enhances its transcriptional activity toward cAMP-responsive genes, so it's known to play critical roles in embryonic development, growth control, and homeostasis by coupling chromatin remodeling to transcription factor recognition. CREBBP acts as a coactivator of ALX1 and acts as a circadian transcriptional coactivator which enhances the activity of the circadian transcriptional activators: NPAS2-ARNTL/BMAL1 and CLOCK-ARNTL/BMAL1 heterodimers. It acetylates PCNA, in which this acetylation promotes removal of chromatin-bound PCNA and its degradation during nucleotide excision repair (NER). Functions as a transcriptional coactivator for SMAD4 in the TGF-beta signaling pathway. This protein shares regions of very high sequence similarity with protein p300 in its bromodomain, cysteine-histidine-rich regions, and histone acetyltransferase domain. Bromodomains (BRDs) are epigenetic reader domains that selectively recognize acetylated lysine residues on the tails of histone proteins and are the only known protein modules that can target acetylated lysine residues. Mutations in this gene cause Rubinstein-Taybi syndrome (RTS) and acute myeloid leukemia. Anti-CREBBP Antibody is useful for researchers interested in Transcription Factors, Histones, Epigenetics, and Cancer research.
Synonyms:	Rabbit Anti-CREBBP Antibody, Rabbit Anti-CREB Binding Protein, CREB-Binding Protein, EC 2.3.1.48, CBP, Rubinstein-Taybi Syndrome, KAT3A, MKHK1, RSTS1, RSTS
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	CREBBP
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-CREBBP antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an N-Terminal portion of human CREBBP conjugated to Keyhole Limpet Hemocyanin (KLH).
Purity/Specificity:	This affinity purified antibody is directed against human CREBBP. This product was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross-reactivity with the antigen based on 100% homology with the immunizing sequence to mouse and rat.
Relevant Links:	• UniProtKB - Q92793 • NCBI - NP_001073315.1 • NCBI - 1387

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-CREBBP Antibody has been tested in ELISA and WB. Expect a band ~265kDa in western blot using appropriate tissue or lysates. Positive control used: Mouse brain, MOLT-4, A549, and PC3 lysates in Western Blots.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000-1:50,000
WB:	5 µg/mL

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/ml by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide

Stabilizer: None

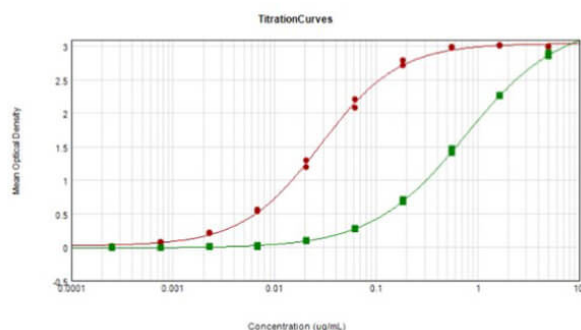
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.

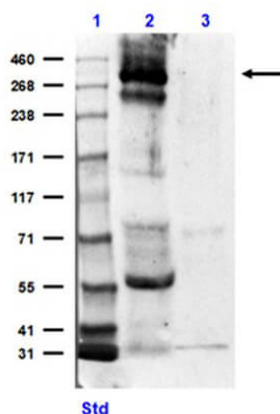
Expiration: Expiration date is one (1) year from date of receipt.

Images



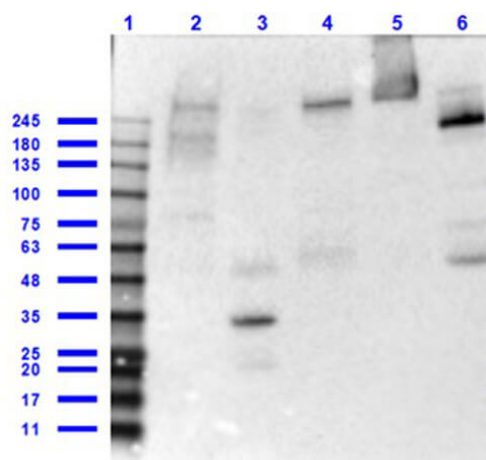
ELISA

ELISA results of purified polyclonal Rabbit Anti-CREBBP Antibody tested against BSA-conjugated peptide of immunizing peptide. Each well was coated in duplicate with 0.1µg of conjugate. The starting dilution of antibody was 5µg/ml and the X-axis represents the Log10 of a 3-fold dilution. This titration is a 4-parameter curve fit where the IC50 is defined as the titer of the antibody. Assay performed using Coating buffer, Goat Anti-Rabbit HRP conjugated (p/n 611-103-122) and substrate (p/n TMBE-1000).



Western Blot

Western Blot of Rabbit Anti-CREBBP Antibody. Lane 1: Opal Pre-Stained Marker (p/n MB-210-0500). Lane 2: Mouse Brain Whole Tissue Lysate (p/n W10-000-T004) [+]. Lane 3: Human Eye Tissue Lysate [-]. Load: 35µg lysate/lane on a 7.5% gel. Primary Antibody: Anti-CREBBP at 5µg/mL overnight at 2-8°C. Secondary Antibody: Goat Anti-Rabbit IgG HRP (p/n 611-103-122) at 1:70,000 at RT. Block: Universal Buffer BlockOut (p/n MB-073). Predicted MW: ~265, 494kDa (Mouse), ~265kDa (Human). Observed MW: ~260, 270kDa. Exposure: 60sec.



Western Blot

Western Blot of Rabbit Anti-CREBBP Antibody. Lane 1: Opal Pre-Stained Marker (p/n MB-210-0500). Lane 2: MOLT-4 Whole Cell Lysate (p/n W09-001-GK2). Lane 3: HEK293T Whole Cell Lysate (p/n W09-001-GX5). Lane 4: A549 Whole Cell Lysate (p/n W09-001-372). Lane 5: PC-3 Whole Cell Lysate (p/n W09-001-GV6). Lane 6: Mouse Brain Whole Tissue Lysate (p/n W10-000-T004) [+]. Load: 35µg lysate/lane on a 7.5% gel. Primary Antibody: Anti-CREBBP at 5µg/mL overnight at 2-8°C. Secondary Antibody: Goat Anti-Rabbit IgG HRP (p/n 611-103-122) at 1:70,000 at RT. Block: Universal Buffer BlockOut (p/n MB-073). Predicted MW: ~265, 494kDa (Mouse), ~265kDa (Human). Observed MW: >245kDa. Exposure: 30sec.

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.