

Rabbit CBP Polyclonal Antibody | anti-CBP antibody

CBP Antibody

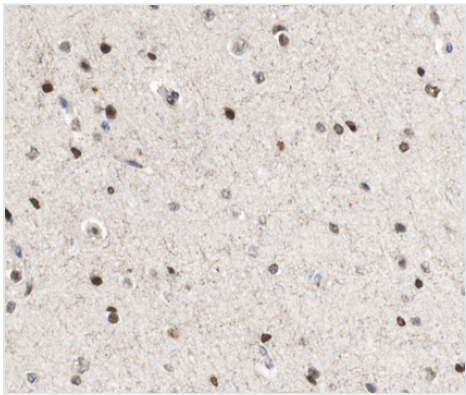
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321262	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

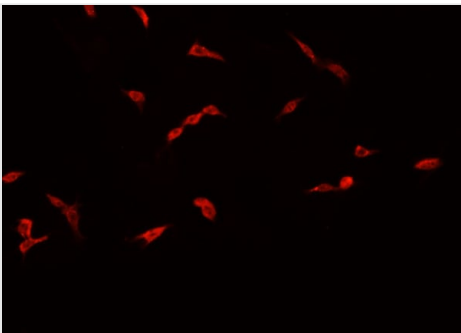
CBP; Polyclonal Antibody; CBP Antibody; CBP_HUMAN; CREB binding protein; CREB-binding protein; Crebbp; Cyclic AMP responsive enhancer binding protein; KAT3A; RSTS; RTS; Rubinstein Taybi syndrome; anti-CBP antibody

PRODUCT SPECIFICATIONS

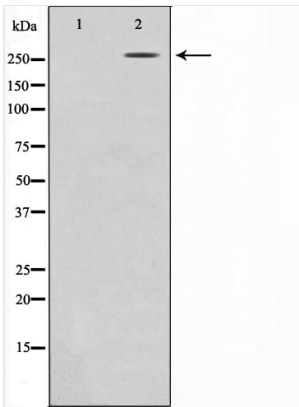
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	CBP antibody detects endogenous levels of CBP
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	2404
Applicable Applications for anti-CBP antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human CBP
Subcellular Location	Cytoplasm. Nucleus. Recruited to nuclear bodies by SS18L1/CREST. In the presence of ALX1 relocates from the cytoplasm to the nucleus.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Dog (100%), Chicken (100%), Xenopus (92%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



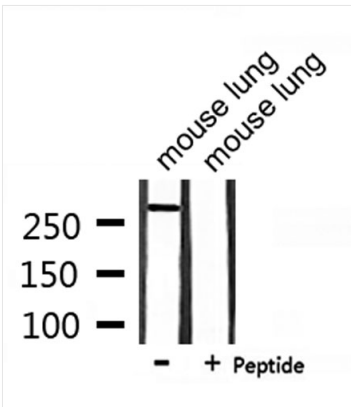
IHC (Immunohistochemistry)
AAA321262 at 1/100 staining human Brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



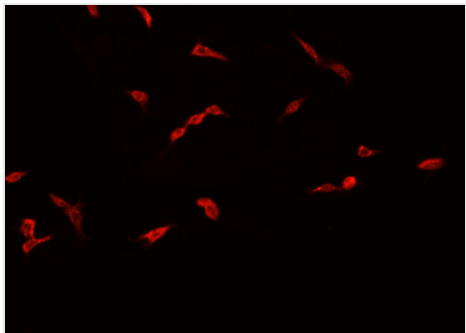
IF (Immunofluorescence)
AAA321262 staining A549 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)
Western blot analysis on HeLa cell lysate using CBP Antibody. The lane on the left is treated with the antigen-specific peptide.



WB (Western Blot)
Western blot analysis of extracts from mouse lung, using CBP Antibody. The lane on the right is treated with the antigen-specific peptide.



IF (Immunofluorescence)
AAA321262 staining HeLa cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CBP antibody	Description: CBP a protein acetyltransferase that can transcriptionally activate histones. Acetylates the NCOA3 coactivator. Binds specifically to phosphorylated CREB1 and enhances its transcriptional activity toward cAMP-responsive genes. Methylation of the KIX domain by CARM1 blocks association with CREB, blocking CREB signaling, and activating the apoptotic response. Found in a complex containing NCOA2, NCOA3, IKKA, IKKB, and IKBKG. Probably part of a complex with HIF1A and EP300. Interacts with the C-terminal region of CITED4. The TAZ-type 1 domain interacts with HIF1A. Interacts with MAF, SRCAP, CARM1, ELF3, MLLT7/FOXO4, N4BP2, NCOA1, NCOA3, NCOA6, PCAF, PELP1, PML, SMAD1, SMAD2, SMAD3, SPIB and TRERF1. Interacts with HTLV-1 Tax, p30II, and HIV-1 Tat. Interacts with KLF1. Function: Acetylates histones, giving a specific tag for transcriptional activation. Also acetylates non-histone proteins, like NCOA3 and FOXO1. Binds specifically to phosphorylated CREB and enhances its transcriptional activity toward cAMP-responsive genes. Acts as a coactivator of ALX1. Acts as a circadian transcriptional coactivator which enhances the activity of the circadian transcriptional activators: NPAS2-ARNTL/BMAL1 and CLOCK-ARNTL/BMAL1 heterodimers. Acetylates PCNA; acetylation promotes removal of chromatin-bound PCNA and its degradation during nucleotide excision repair (NER) (PubMed:24939902). Subunit Structure: Found in a complex containing NCOA2; NCOA3; IKKA; IKKB and IKBKG. Probably part of a complex with HIF1A and EP300. Interacts with GATA1; the interaction results in acetylation and enhancement of transcriptional activity of GATA1. Interacts with MAF AND ZCCHC12. Interacts with DAXX; the interaction is dependent on CBP sumoylation and results in suppression of the transcriptional activity via recruitment of HDAC2 to DAXX (By similarity). Interacts with phosphorylated CREB1. Interacts with CITED4 (C-terminal region). Interacts (via the TAZ-type 1 domain) with HIF1A. Interacts with SRCAP, CARM1, ELF3, MLLT7/FOXO4, N4BP2, NCOA1, NCOA3, NCOA6, PCAF, DDX5, DDX17, PELP1, PML, SMAD1, SMAD2, SMAD3, SPIB and TRERF1. Interacts with HTLV-1 Tax and p30II. Interacts with HIV-1 Tat. Interacts with KLF1; the interaction results in acetylation of KLF1 and enhancement of its transcriptional activity. Interacts with MTDH. Interacts with NFATC4. Interacts with MAFG; the interaction acetylates MAFG in the basic region and stimulates NFE2 transcriptional activity through increasing its DNA-binding activity. Interacts with IRF2; the interaction acetylates IRF2 and regulates its activity on the H4 promoter. Interacts (via N-terminus) with SS18L1/CREST (via C-terminus). Interacts with MECOM. Interacts with CITED1 (via C-terminus). Interacts with FOXO1; the interaction acetylates FOXO1 and inhibits its transcriptional activity. Interacts with human herpes virus 8/HHV-8 protein vIRF-1; this interaction inhibits CREBBP binding to IRF3. Interacts with NPAS2, CLOCK and ARNTL/BMAL1. Interacts with ASF1A and ASF1B; this promotes histone acetylation. Interacts with acetylated TP53/p53 and with the acetylated histones H3 and H4. Interacts (via transactivation domain and C-terminus) with PCNA; the interaction occurs on chromatin in UV-irradiated damaged cells (PubMed:24939902). Interacts with DHX9 (via N-terminus); this interaction mediates association with RNA polymerase II holoenzyme and stimulates CREB-dependent transcriptional activation (PubMed:9323138). Post-translational Modifications: Methylation of the KIX domain by CARM1 blocks association with CREB. This results in the blockade of CREB signaling, and in activation of apoptotic response (By similarity). Phosphorylated by CHUK/IKKA at Ser-1382 and Ser-1386; these phosphorylations promote cell growth by switching the binding preference of CREBBP from TP53 to NF-kappa-B. Sumoylation negatively regulates transcriptional activity via the recruitment of DAAX. Autoacetylation is required for binding to protein substrates, such as acetylated histones and acetylated TP53/p53. Similarity: The KIX domain mediates binding to HIV-1 Tat.
---	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	119943102
NCBI GeneID	1387
NCBI Accession #	NP_001073315.1
NCBI GenBank Nucleotide #	NM_001079846.1
UniProt Accession #	Q92793; O00147; Q16376; Q4LE28; D3DUC9
Molecular Weight	Observed: 265 kDa Predicted: 266 kDa
NCBI Official Full Name	CREB-binding protein isoform b
NCBI Official Synonym Full Names	CREB binding protein
NCBI Official Symbol	CREBBP
NCBI Official Synonym Symbols	CBP; RSTS; KAT3A; RSTS1

NCBI Protein Information	CREB-binding protein
UniProt Protein Name	CREB-binding protein
UniProt Gene Name	CREBBP
UniProt Synonym Gene Names	CBP

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/cbp-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/321262>