

CREBBP / CREB Binding Protein Antibody (aa2393-2442)
Rabbit Polyclonal Antibody
Catalog # ALS13766**Specification****CREBBP / CREB Binding Protein Antibody (aa2393-2442) - Product Information**

Application	IF, WB, IHC
Primary Accession	O92793
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	265kDa KDa

CREBBP / CREB Binding Protein Antibody (aa2393-2442) - Additional Information**Gene ID** 1387**Other Names**

CREB-binding protein, 2.3.1.48, CREBBP, CBP

Target/Specificity

CREB-BP Antibody detects endogenous levels of total CREB-BP protein.

Reconstitution & Storage

Store at -20°C for up to one year.

Precautions

CREBBP / CREB Binding Protein Antibody (aa2393-2442) is for research use only and not for use in diagnostic or therapeutic procedures.

CREBBP / CREB Binding Protein Antibody (aa2393-2442) - Protein Information**Name** CREBBP ([HGNC:2348](#))**Synonyms** CBP**Function**

Acetylates histones, giving a specific tag for transcriptional activation (PubMed: 21131905, PubMed: 24616510). Mediates acetylation of histone H3 at 'Lys-18' and 'Lys-27' (H3K18ac and H3K27ac, respectively) (PubMed: 21131905). Also acetylates non-histone proteins, like DDX21, FBL, IRF2, MAFG, NCOA3, POLR1E/PAF53 and FOXO1 (PubMed: 10490106, PubMed: 11154691, PubMed: 12738767, PubMed: 12929931, PubMed: 9707565).

target="_blank">9707565, PubMed:24207024, PubMed:28790157, PubMed:30540930, PubMed:35675826). 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-BMAL1 and CLOCK-BMAL1 heterodimers (PubMed:14645221). Acetylates PCNA; acetylation promotes removal of chromatin-bound PCNA and its degradation during nucleotide excision repair (NER) (PubMed:24939902). Acetylates POLR1E/PAF53, leading to decreased association of RNA polymerase I with the rDNA promoter region and coding region (PubMed:24207024). Acetylates DDX21, thereby inhibiting DDX21 helicase activity (PubMed:28790157). Acetylates FBL, preventing methylation of 'Gln-105' of histone H2A (H2AQ104me) (PubMed:30540930). Functions as a transcriptional coactivator for SMAD4 in the TGF-beta signaling pathway (PubMed:25514493).

Cellular Location

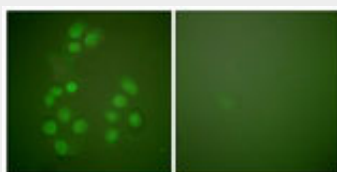
Cytoplasm. Nucleus. Note=Recruited to nuclear bodies by SS18L1/CREST (PubMed:15488321). In the presence of ALX1 relocates from the cytoplasm to the nucleus (PubMed:12929931)

CREBBP / CREB Binding Protein Antibody (aa2393-2442) - Protocols

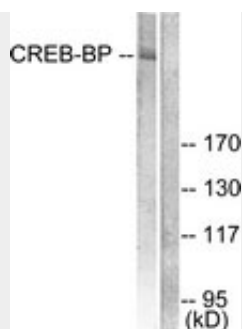
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

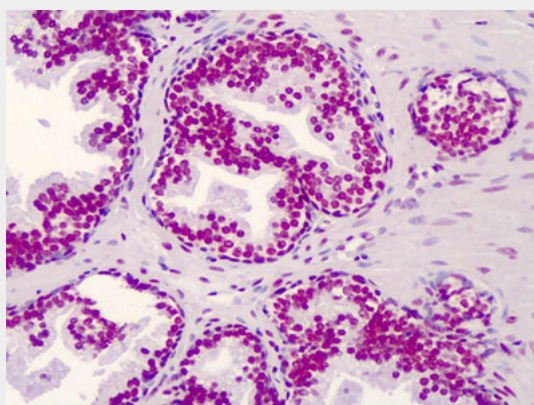
CREBBP / CREB Binding Protein Antibody (aa2393-2442) - Images



Immunofluorescence of A549 cells, using CREB-BP Antibody.



Western blot of extracts from HeLa cells, treated with Insulin 0.01U/ml 15', using CREB-BP Antibody.



Anti-CREBBP antibody IHC of human prostate.

CREBBP / CREB Binding Protein Antibody (aa2393-2442) - Background

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 in the presence of EP300. Acts as a circadian transcriptional coactivator which enhances the activity of the circadian transcriptional activators: NPAS2- ARNTL/BMAL1 and CLOCK-ARNTL/BMAL1 heterodimers.

CREBBP / CREB Binding Protein Antibody (aa2393-2442) - References

Sobulo O.M.,et al.Proc. Natl. Acad. Sci. U.S.A. 94:8732-8737(1997).
Giles R.H.,et al.Genomics 42:96-114(1997).
Petrij F.,et al.Submitted (MAR-1999) to the EMBL/GenBank/DDBJ databases.
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