

**CBP Polyclonal Antibody**  
Catalog # AP68877**Specification****CBP Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q92793</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal

**CBP Polyclonal Antibody - Additional Information**

Gene ID 1387

**Other Names**

CREBBP; CBP; CREB-binding protein

**Dilution**

WB~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**CBP Polyclonal Antibody - Protein Information**Name CREBBP ([HGNC:2348](#))**Synonyms** CBP**Function**

Acetylates histones, giving a specific tag for transcriptional activation (PubMed: [21131905](http://www.uniprot.org/citations/21131905), PubMed: [24616510](http://www.uniprot.org/citations/24616510)). Mediates acetylation of histone H3 at 'Lys-18' and 'Lys-27' (H3K18ac and H3K27ac, respectively) (PubMed: [21131905](http://www.uniprot.org/citations/21131905)). Also acetylates non-histone proteins, like DDX21, FBL, IRF2, MAFG, NCOA3, POLR1E/PAF53 and FOXO1 (PubMed: [10490106](http://www.uniprot.org/citations/10490106), PubMed: [11154691](http://www.uniprot.org/citations/11154691), PubMed: [12738767](http://www.uniprot.org/citations/12738767), PubMed: [12929931](http://www.uniprot.org/citations/12929931), PubMed: [24207024](http://www.uniprot.org/citations/24207024), PubMed: [28790157](http://www.uniprot.org/citations/28790157), PubMed: [30540930](http://www.uniprot.org/citations/30540930)).

target="\_blank">30540930</a>, PubMed:<a href="http://www.uniprot.org/citations/35675826" target="\_blank">35675826</a>, PubMed:<a href="http://www.uniprot.org/citations/9707565" target="\_blank">9707565</a>). 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:<a href="http://www.uniprot.org/citations/14645221" target="\_blank">14645221</a>). Acetylates PCNA; acetylation promotes removal of chromatin-bound PCNA and its degradation during nucleotide excision repair (NER) (PubMed:<a href="http://www.uniprot.org/citations/24939902" target="\_blank">24939902</a>). Acetylates POLR1E/PAF53, leading to decreased association of RNA polymerase I with the rDNA promoter region and coding region (PubMed:<a href="http://www.uniprot.org/citations/24207024" target="\_blank">24207024</a>). Acetylates DDX21, thereby inhibiting DDX21 helicase activity (PubMed:<a href="http://www.uniprot.org/citations/28790157" target="\_blank">28790157</a>). Acetylates FBL, preventing methylation of 'Gln-105' of histone H2A (H2AQ104me) (PubMed:<a href="http://www.uniprot.org/citations/30540930" target="\_blank">30540930</a>). In addition to protein acetyltransferase, can use different acyl-CoA substrates, such as lactoyl-CoA, and is able to mediate protein lactylation (PubMed:<a href="http://www.uniprot.org/citations/38128537" target="\_blank">38128537</a>). Catalyzes lactylation of MRE11 in response to DNA damage, thereby promoting DNA double-strand breaks (DSBs) via homologous recombination (HR) (PubMed:<a href="http://www.uniprot.org/citations/38128537" target="\_blank">38128537</a>). Functions as a transcriptional coactivator for SMAD4 in the TGF-beta signaling pathway (PubMed:<a href="http://www.uniprot.org/citations/25514493" target="\_blank">25514493</a>).

#### 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)

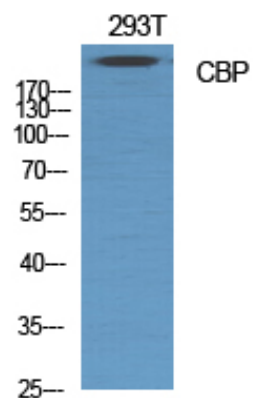
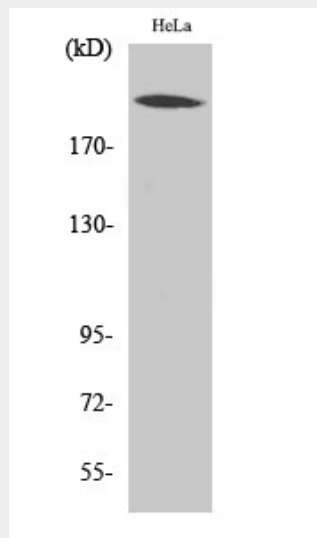
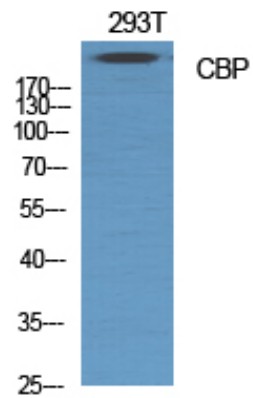
#### CBP Polyclonal Antibody - Protocols

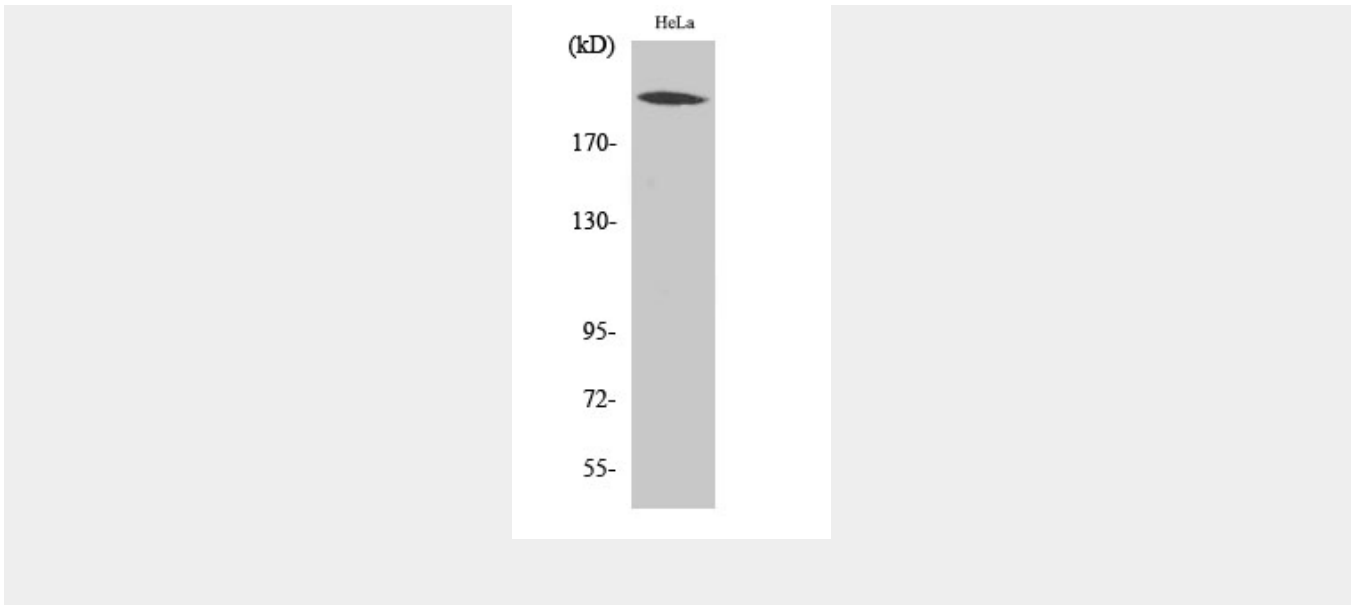
Provided below are standard protocols that you may find useful for product applications.

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

#### CBP Polyclonal Antibody - Images







### CBP Polyclonal Antibody - 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. 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). Functions as a transcriptional coactivator for SMAD4 in the TGF-beta signaling pathway (PubMed:25514493).