CREBBP

Rabbit Anti-Human CREB Binding Protein Clone Poly6064 pAb

Catalog No.	CSI14332 CSI14333	**Quantity:**	50 µl 200 µl

Alternate Names: CREB-binding protein, CREBBP, CBP/p300

Description: CBP (also known as CREB-binding protein and CBP/p300) is a widely expressed nuclear protein that contains a bromodomain, a ZZ-type zinc domain, and TAZ-type zinc fingers. This 265 kD acetyltransferase enzyme, acetylates histones and non-histone proteins like NCOA3 coactivator and mediates c-AMP gene regulating by binding to phosphorylated CREB. CBP and phosphorylated CREB activates transcription of c-AMP responsive genes; defects in CBP result in Rubinstein-Taybi syndrome (mental retardation, craniofacial defects, heart defects). CBP is activated by TCR signaling and is involved in TNF-α gene expression and plays a central role in regulating gene responses to hypoxia. This protein is acetylated at multiple sites. CBP has been shown to interact with NCOA6, androgen receptor, STAT6, SRC1, Csk, FKHR, and c-jun and to form a complex with NCOA2, NCOA3, IKKA, IKKB, and IKBKG. In addition, CBP probably forms a complex with HIF1A and EP300. The Poly6064 antibody has been shown to be useful for Western blotting of the human and mouse CBP protein.

Gene ID: 1387

Structure: Bromodomain, ZZ-type zinc domain, TAZ-type zinc fingers; 265 kD .

Distribution: Nuclear protein, widely expressed

Host: Rabbit

Immunogen: Recombinant (partial) , N-terminal

Isotype: IgG

Clone: Poly6064

Function: Acetyltransferase enzyme, acetylates histones and non-histone proteins like NCOA3 coactivator. Mediates c-AMP gene regulating by binding to phosphorylated CREB. CBP and phosphorylated CREB activates transcription of c-AMP responsive genes; defects result in Rubinstein-Taybi syndrome (mental retardation, craniofacial defects, heart defects).

Formulation: This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 50% glycerol. **Precaution:** Sodium azide is a poisonous and hazardous substance which should be handled by trained staff only.

Purification:

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The antibody was purified by antigen-affinity chromatography.

Regulation: Activated by TCR signaling and involved in TNF-α gene expression, central role in regulating gene responses to hypoxia.

Reactivity: Mouse, Human

Applications: Western Blot

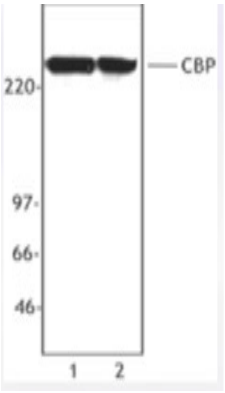
Recommended Usage: Each lot of this antibody is quality control tested by Western blotting. Western blotting, suggested working dilution(s): Use 10 µl per 5 ml antibody dilution buffer for each mini-gel. It is recommended that the reagent be titrated for optimal performance for each application.

Storage & Stability: Upon receipt, store frozen at -20° C.

Modification: Acetylation at multiple sites

Interaction: SMAD1, SMAD2, SMAD3, PCAF, NCOA6, androgen receptor, STAT6, SRC1, Csk, FKHR, and c-jun, forms a complex with NCOA2, NCOA3, IKKA, IKKB, and IKBKG. Probably forms a complex with HIF1A and EP300

MCF-7 cell extract (Lane 1) or NIH3T3 cell extract (Lane 2) was resolved by electrophoresis, transferred to nitrocellulose and probed with rabbit polyclonal antibody against CBP. Proteins were visualized using a donkey anti-rabbit secondary conjugated to HRP and a chemiluminescence detection system.



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