

**CBP (D6C5) Rabbit mAb**

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<b>Applications:</b> W, W-S, IP, IF-IC, ChIP, ChIP-seq	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 300	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q92793	<b>Entrez-Gene Id:</b> 1387
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**Product Usage Information**

For optimal ChIP results, use 10 µl of antibody and 10 µg of chromatin (approximately 4 x 10<sup>6</sup> cells) per IP. This antibody has been validated using SimpleChIP<sup>®</sup> Enzymatic Chromatin IP Kits.

<b>Application</b>	<b>Dilution</b>
Western Blotting	1:1000
Simple Western™	1:50 - 1:250
Immunoprecipitation	1:200
Immunofluorescence (Immunocytochemistry)	1:100 - 1:200
Chromatin IP	1:50
Chromatin IP-seq	1:50

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #63794.

**Specificity/Sensitivity**

CBP (D6C5) Rabbit mAb recognizes endogenous levels of total CBP protein. This antibody does not cross-react with p300 protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a recombinant protein specific to the amino terminus of human CBP protein. The epitope has been mapped to residues surrounding Ser235.

**Background**

CBP (CREB-binding protein) and p300 are highly conserved and functionally related transcriptional co-activators that associate with transcriptional regulators and signaling molecules, integrating multiple signal transduction pathways with the transcriptional machinery (1,2). CBP/p300 also contain histone acetyltransferase (HAT) activity, allowing them to acetylate histones and other proteins (2). Phosphorylation of p300 at Ser89 by PKC represses its transcriptional activity, and phosphorylation at the same site by AMPK disrupts the association of p300 with nuclear receptors (3,4). Ser1834 phosphorylation of p300 by Akt disrupts its association with C/EBPβ (5). Growth factors induce phosphorylation of CBP at Ser437, which is required for CBP recruitment to the transcription complex (6). CaM kinase IV phosphorylates CBP at Ser302, which is required for CBP-dependent transcriptional activation in the CNS (7). The role of acetylation of CBP/p300 is of particular interest (2,8). Acetylation of p300 at Lys1499 has been demonstrated to enhance its HAT activity and affect a wide variety of signaling events (9).

**Background References**

1. Goodman, R.H. and Smolik, S. (2000) *Genes Dev* 14, 1553-77.
2. Chan, H.M. and La Thangue, N.B. (2001) *J. Cell Sci.* 114, 2363-2373.
3. Yuan, L.W. and Gambée, J.E. (2000) *J. Biol. Chem.* 275, 40946-40951.
4. Yang, W. et al. (2001) *J. Biol. Chem.* 276, 38341-38344.
5. Guo, S. et al. (2001) *J. Biol. Chem.* 276, 8516-8523.
6. Zanger, K. et al. (2001) *Mol. Cell* 7, 551-558.
7. Impey, S. et al. (2002) *Neuron* 34, 235-244.
8. Yuan, L.W. and Giordano, A. (2002) *Oncogene* 21, 2253-2260.
9. Thompson, P.R. et al. (2004) *Nat. Struct. Mol. Biol.* 11, 308-315.

**Species Reactivity**

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer**

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key**

**W:** Western Blotting **W-S:** Simple Western™ **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry) **ChIP:** Chromatin IP **ChIP-seq:** Chromatin IP-seq

**Cross-Reactivity Key**

**H:** Human **M:** Mouse **R:** Rat **Mk:** Monkey

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