425 Store at -20C

CBP (D9B6) Rabbit mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP, ChIP, ChIP-seq	HMRMk	Endogenous	300	Rabbit IgG	#Q92793	1387

Product Usage Information

For optimal ChIP and ChIP-seq results, use 10 μ I of antibody and 10 μ g of chromatin (approximately 4 x 10⁶ cells) per IP. This antibody has been validated using SimpleChIP[®] Enzymatic Chromatin IP Kits.

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:200
Chromatin IP	1:50
Chromatin IP-seg	1:50

Storage

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

Specificity / Sensitivity

CBP (D9B6) Rabbit mAb recognizes endogenous levels of total CBP protein. This antibody also shows some cross-reactivity with p300 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a recombinant protein specific to the carboxy terminus of human CBP protein.

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/EBP β (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 Gambee, 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

WB: Western Blotting IP: Immunoprecipitation ChIP: Chromatin IP ChIP-seq: Chromatin IP-seq

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Cross-Reactivity Key

Trademarks and Patents

Limited Uses

CBP (D9B6) Rabbit mAb (#7425) Datasheet Without Images Cell Signaling Technology

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected

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