
anti-CREM-1

Cat #: HM1098
Rabbit polyclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

The transcription factor CREM (cyclic AMP responsive element modulator) is a CRE (cyclic AMP responsive element) binding protein. It is an important component of cAMP-mediated signal transduction during the spermatogenic cycle, as well as other complex processes. CRE is found in many viral and cellular promoters. The CREM gene generates both transcriptional activators and repressors by alternative splicing and an intronic promoter. Alternative promoter and translation initiation site usage allows CREM gene to exert spatial and temporal specificity to cAMP responsiveness.

SPECIFICITY

This antibody specifically reacts with CREM-1 of human, mouse and rat origin.

The antibody can be used in Western blotting, immunoprecipitation and immunohistochemistry.

IMMUNOGEN

Full-length human recombinant CREM-1 protein.

STORAGE

This antibody is stable for 12 months when stored at 2-8°C.

REFERENCE

1. Hoeffler, J.P., Meyer, T.E., Yun, Y., Jameson, J.L., and Habener, J.F. 1988. Cyclic AMP-responsive DNA-binding protein: structure based on a cloned placental cDNA. *Science* 242: 1430-1433.
2. Hai, T., Liu, F., Coukos, W.J., and Green, M.R. 1989. Transcription factor ATF cDNA clones: an extensive family of leucine zipper proteins able to selectively form DNA-binding heterodimers. *Genes and Dev.* 8: 2083-2090.
3. Maekawa, T., Sakura, H., Kanei-Ishii, C., Sudo, T., Yoshimura, T., Fujisawa, J., Yoshida, M., and Ishii, S. 1989. Leucine zipper structure of the protein CRE-BP1 binding to the cyclic AMP response element in brain. *EMBO J.* 8: 2023-2028.
4. Kara, C.J., Liou, H., Ivashkiv, L.B., and Glimcher, L.H. 1990. A cDNA for a human cyclic AMP response element-binding protein which is distinct from CREB and expressed preferentially in brain. *Mol. Cell. Biol.* 10: 1347-1357.
5. Foulkes NS, Borrelli E, Sassone-Corsi P. CREM gene: use of alternative DNA-binding domains generates multiple antagonists of cAMP-induced transcription. *Cell.* 1991; 64:739-49.
6. Foulkes, N.S. and Sassone-Corsi, P. 1992. More is better: activators and repressors from the same gene. *Cell* 68: 411-414.
7. Brindle, P., Linke, S., and Montminy, M. 1993. Protein kinase-A-dependent activator in transcription factor

CREB reveals new role for CREM repressors. *Nature* 364: 821-824.

8. Blendy, J.A., Kaestner, K.H., Weinbauer, G.F., Nieschlag, E. and Schutz, G. (1996) severe impairment of spermatogenesis in mice lacking the CREM gene. *Nature* 380, 162-165.
9. Don, J. and Stelzer, G. (2002) The expanding family of CREB/CREM transcription factors that are involved with spermatogenesis. *Mol. Cell. Endocrinol.* 187, 115-124.
10. Sawka-Verhelle, D., Escoubet-Lozach, L., Fong, A.L., Hester, K.D., Herzig, S., Lebrun, P. and Glass, C.K. (2004) PE-1/METS, an antiproliferative Ets repressor factor, is induced by CREB-1/CREM-1 during macrophage differentiation. *J. Biol. Chem.* 279, 17772-17784.

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