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 1: [EMBO Rep.](#) 2002 Apr;3(4):361-6. Epub 2002 Mar 15.EMBO FULL TEXT
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in PubMed Central [Links](#)**Prothymosin alpha interacts with the CREB-binding protein and potentiates transcription.**[Karetsou Z](#), [Kretsovali A](#), [Murphy C](#), [Tsolas O](#), [Papamarcaki T](#).

Laboratory of Biological Chemistry, University of Ioannina Medical School, 45110 Ioannina, Greece.

Prothymosin alpha (ProTalpha) is a histone H1-binding protein localized in sites of active transcription in the nucleus. We report here that ProTalpha physically interacts with the CREB-binding protein (CBP), which is a versatile transcription co-activator. Confocal laser scanning microscopy reveals that ProTalpha partially colocalizes with CBP in discrete subnuclear domains. Using transient transfections, we show that ProTalpha synergizes with CBP and stimulates AP1- and NF-kappaB-dependent transcription. Furthermore, overexpression of ProTalpha enhances the transactivation potential of CBP. These findings reveal a new function for ProTalpha in transcription activation, probably through CBP-mediated recruitment to different promoters.

PMID: 11897665 [PubMed - indexed for MEDLINE]

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