

综述

## BTEB/KLF9与基因转录调控

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摘要

BTEB/KLF9(basic transcription element-binding protein/Krüppel-like transcription factor 9)属于Krüppel样转录因子家族成员之一, 是参与真核细胞基因转录调控的锌指蛋白, 主要通过羧基末端锌指与靶基因启动子区的GC或GT/CACC box结合调节靶基因的转录。BTEB/KLF9与其他转录因子、和/或辅助激活/抑制因子相互作用完成对基因转录的调控, 在生殖发育、细胞增殖分化、细胞周期调控等方面发挥作用。

关键词 [BTEB/KLF9](#) [转录调控](#) [锌指](#) [辅助激活/抑制因子](#)

分类号

## BTEB/KLF9 and its transcriptional regulation

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### Abstract

<P>BTEB/KLF9(basic transcription element-binding protein/Krüppel-like transcription factor 9), a member of Krüppel-like transcriptional factors, is a zinc finger protein involved in regulating gene transcription in eukaryocyte. Substantial expression of BTEB mRNA is detected in a variety of cell lines and tissues, but BTEB protein is not consistent with its mRNA. BTEB regulates transcription through its carboxyl-terminal C2H2 zinc finger motif binding to GC or GT/CACC box, a sort of <EM>cis</EM>-acting elements, which is wildly distributed in promoters, enhancers and control regions of many genes. BTEB/KLF9 functions as a transcription factor by direct or functional interaction with other transcription factors and/or coactivators/corepressors, and plays a role in reproductive system, cell proliferation, differentiation, and cell cycle regulation.</P>

**Key words** [BTEB/KLF9](#) [transcriptional regulation](#) [zinc finger](#) [coactivator/corepressor](#)

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