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PICOT promotes T lymphocyte proliferation by down-regulating cyclin D2 expression

Pandya P *et al.* PICOT regulates CCND2 gene expression

Pinakin Pandya, Noah Isakov

Abstract

The mammalian protein kinase C-interacting cousin of thioredoxin (PICOT; also termed glutaredoxin 3) is a multi-domain monothiol glutaredoxin that is involved in a wide variety of signaling pathways and biological processes. PICOT is required for normal and transformed cell growth and is critical for embryonic development. Recent studies in T lymphocytes demonstrated that PICOT can translocate to the nucleus and interact with embryonic ectoderm development, a polycomb group protein and a core component of the polycomb repressive complex 2, which contributes to the maintenance of transcriptional repression and chromatin

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expression levels Since PRC2-mediated trimethylation of H3K27 at specific gene loci can negatively **regulate gene** transcription, we tested whether the lower levels of EED, EZH2, and H3K27me3 at the **CCND2 promoter in PICOT-deficient cells** would also be reflected at the gene transcription ...

Author: Pinakin Pandya, Minesh Jethva, Eit... **Publish Year:** 2019

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Regulation of **cyclin D2** and the **cyclin D2** promoter **by** protein kinase A and CREB in **lymphocytes** ... ylation and **cyclin D2 expression** (Figure 7c and d) ... which **promotes** the **proliferation** ...



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Lymphocyte proliferation is key to the regulation of the immune system. **Cyclin D2** is the first cell cycle protein induced following stimulation through the T-cell receptor, the B-cell receptor or ...

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Nov 16, 2001. To evaluate further the mechanism by which **cyclin D2 promotes proliferation** and