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Basic Study

Sp1 contributes to overexpression of stanniocalcin 2 through regulation of promoter activity in colon adenocarcinoma

Li J *et al.* Sp1 is required for STC2 expression

Ji-Bin Li, Zhe-Xian Liu, Rui Zhang, Si-Ping Ma, ¹² Tao Lin, Yan-Xi Li, Shi-Hua Yang, Wan-Chuan Zhang, Yong-Peng Wang

Abstract

BACKGROUND

Aberrant expression of stanniocalcin 2 (STC2) is implicated in colon adenocarcinoma (COAD). Previous study identified that STC2 functions as a tumor promoter to drive

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SP1 Sp1 transcription factor [(human)]

<https://www.ncbi.nlm.nih.gov/gene/6667>

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Transcription Factor Sp1 Promotes the Expression of ...

www.ncbi.nlm.nih.gov > ... > *Int J Mol Sci* > v.17(1); 2016 Jan

The **promoter activity** of rat ROCK1 gene is reduced by Sp1, whereas it is enhanced by Sp6 in dental epithelial cells . To investigate the transcriptional **regulation** of the ROCK1 gene, we isolated the **promoter** of the porcine ROCK1 gene, analyzed its upstream regulatory elements and revealed that **transcription factor Sp1** directly binds to the core ...

Cited by: 3

Author: Ruirui Zhang, Xiaoting Feng, Mengsi Zhan...

Publish Year: 2016

Regulation of KLF5 involves the Sp1 transcription factor ...

<https://www.sciencedirect.com/science/article/pii/S0378111904000411>

Electrophoretic mobility shift assays (EMSAs) revealed that the Sp1 site binds Sp1 protein in nucleic extracts of different cell lines. In addition, **overexpression** of Sp1 protein transactivates KLF5 **promoter activity**. These findings suggest that Sp1 is a key **transcription factor** in KLF5's dynamic transcriptional regulation.

Cited by: 50

Author: Ceshi Chen, Yingfa Zhou, Zhongmei Zhou...

Publish Year: 2004

Transcription Factor Sp1 Is Involved in Expressional ...

<https://www.hindawi.com/journals/bmri/2011/636497> ▼

However, mithramycin treatment, which is known as blocking transcriptional **activity** of Sp1 family **transcription factors through** binding to G/C-rich region [12, 13], significantly suppressed the **promoter activity** in the cells expressed by ectopic Sp1, but not by Sp1 DN (Figures 2(a) and 2(b)).

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