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Basic Study

Identification of integrin $\beta 6$ gene promoter and analysis of its transcription regulation in colon cancer cell

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Zhao-Yang Zhang

Abstract

BACKGROUND

The integrin $\beta 6$ gene, which expresses in epithelial cancer, plays a pivotal role

Match Overview

1	Crossref 30 words Mingyan Xu, Hao Yin, Yihuang Cai, Wenxia Huang, Qing Ji, Fan Liu, Songlin Shi, Xiaoling Deng. "Lysophosphatidic aci	1%
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Integrin expression in colon cancer cells is regulated by ...

<https://onlinelibrary.wiley.com/doi/full/10.1002/ijc.10397>

We have reported that high cell density in a 2-dimensional monolayer culture model selectively **upregulates $\beta 6$ integrin subunit expression** in colon cancer cells in a protein kinase C (PKC)-dependent manner in preference to other β subunits. 12 Moreover, PKC activity has been shown to increase with cell confluence in colon cancer cells, and the rise in PKC activity is much greater for $\alpha v\beta 6$

Cited by: 61

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Publish Year: 2002

The ITGB6 gene: its role in experimental and clinical ...

<https://www.sciencedirect.com/science/article/pii/S2590158319300208>

Given that **transcription of ITGB6** is almost certainly a mechanism determining **its availability** at the cell surface, understanding **its regulation** could **identify** potential therapeutic targets in diseases where $\alpha v\beta 6$ is overexpressed.

Author: Amelia Meecham, John F Marshall Publish Year: 2019

$\beta 6$ integrin induces the expression of metalloproteinase-3 ...

<https://www.sciencedirect.com/science/article/pii/S0304383514004479>

This means that ETS1 recruitment to the putative MMP-3 and MMP-9 **promoters** enhances the **transcription** of these **genes**, and **$\beta 6$ integrin** further augments the **transcriptional** activity. This is an evidence for ETS1 interaction with the MMP-3 and **MMP-9 promoters** in colon cancer cells. Unlike the MMP-3 and MMP-9 **promoters**,...

Cited by: 19

Author: Huijie Gao, Huijie Gao, Cheng Peng, Che...

Publish Year: 2014

Identification and characterization of the promoter of ...

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LOXL2 is also engaged to **transcription regulation**, cell signaling transduction and cell adhesion **regulation**. ... but there are still few reports on the **identification** of **LOXL2 gene promoter** and the regulatory mechanism of **LOXL2 gene** expression. ... And it has been reported that inhibition of Sp1 **transcription** factor suppresses colon cancer ...

Author: Xin Liu, Tong Liu, Lanyue Hu, Tinghui ... Publish Year: 2020



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Author: Xin Liu, Tong Liu, Lanyue Hu, Tinghui ...

Publish Year: 2020

Cloning and Characterization of the Human Integrin $\beta 6$ Gene ...

<https://www.researchgate.net/publication/274259332...>

The **integrin $\beta 6$ (ITGB6) gene**, which encodes the limiting subunit of the **integrin $\alpha v\beta 6$** heterodimer, plays an important role in wound healing and carcinogenesis. The mechanism underlying ITGB6 ... +

The human alpha 2 integrin gene promoter. Identification ...

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