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Gu JF et al. Role and mechanism of TBL1XR1 in PDAC

Jian-feng Gu, Wei Fu, Hai-xin Qian, Wen-xiu Gu, Yang Zong, Qiao Chen,
Long Lu

Abstract

BACKGROUND

Pancreatic ductal adenocarcinoma (PDAC) is one of the most deadly solid tumor of malignancies. It's urgent to find the diagnosis and therapeutic biomarker of PDAC. TBL1XR1 has been linked to progression of virous human cancers. Nevertheless, the function and role of TBL1XR1 is

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However, the mechanism of **cell apoptosis induced by PI3K/Akt pathway** and Plk1 still remains unclear. In this study, we investigated the function of **PI3K/Akt pathway** on **cell proliferation and apoptosis in pancreatic carcinoma** in vitro and in vivo and the effect of Plk1 in this process. Our results could help to understand **apoptosis-related** ...

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the molecular mechanism of **PI3K/Akt pathway** and **Plk1** in the **pancreatic cancer cell proliferation and apoptosis**, which may benefit for the therapy of **pancreatic cancer**. Introduction **Pancreatic cancer** has a poor prognosis with a 5-year survival of <5% and the fourth most deadly cancer (1). The **poor prog-**

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May 18, 2016 · However, the mechanism of **cell apoptosis induced by PI3K/Akt pathway** and Plk1 still remains unclear. In this study, we investigated the function of **PI3K/Akt pathway** on **cell proliferation** and **apoptosis in pancreatic** carcinoma in vitro and in vivo and the effect of Plk1 in this process. Our results could help to understand **apoptosis**-related ...

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EG-VEGF silencing inhibits cell proliferation and promotes ...

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PI3K/AKT/mTOR pathway is involved in the pathogenesis of PC [22,23]. To further explore whether the cancer **cell proliferation** and **apoptosis induced** by EG-VEGF silencing is related to the **PI3K/AKT/mTOR pathway**, we measured the protein expressions of **PI3K, AKT**, and mTOR in BXPc-3 and PANC-1 **cells**.

Cited by: 2 **Author:** Xiaogang Yan, Yongfeng Hui, Yongqiang H...

Publish Year: 2019

Prooxidative activity of plumbagin induces apoptosis in ...

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Prognosis of **pancreatic** cancer patients remains extremely poor thus, the need for the development of new therapeutic options is crucial. Plumbagin, a naphthoquinone derivative from Plumbago indica has been found to possess various pharmacological properties including anticancer activity. The present study was designed to investigate the inhibitory potential of plumbagin and associated ...

Author: Kamal Pandey, Surya Kant Tripathi, Mun... **Publish Year:** 2020

Grifolin induces apoptosis via inhibition of PI3K/AKT ...

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The **PI3K/Akt** signaling **pathway** is another regulator of **cell** survival, **cell** growth and **apoptosis**, and inactivation of the **PI3K/Akt** signaling **pathway** inhibits the **proliferation** and **induces** the ...

Bruceine D induces lung cancer cell apoptosis and ...

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Feb 18, 2020 · Lau, S. T. et al. Bruceine D **induces apoptosis in pancreatic adenocarcinoma cell** line PANC-1 through the activation of p38-mitogen activated protein kinase. Cancer Lett. 281 , ...

Author: Jiangjiang Fan, Dongmei Ren, Jinxia Wa... **Publish Year:** 2020

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TBL1XR1 induces cells proliferation and inhibit cells



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Inhibition of the PI3K/Akt pathway could **reduce cell proliferation and induce apoptosis** in **pancreatic cancer cells** in vitro. **Cell proliferation** influenced by different concentrations of LY294002 was detected by MTT assay (Fig. 2A).

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[Girdin regulates the proliferation and apoptosis of ...](#)

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Girdin silencing suppressed **pancreatic cancer cell proliferation and induced pancreatic cancer cell apoptosis** in vitro and in vivo. According to the results of further mechanistic investigations, Girdin may regulate **cell** processes through the phosphatidylinositol-3-kinase/protein kinase B (PI3K/Akt) signalling pathway to exert additive effects on **pancreatic cancer**.

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Author: Sheng Wang, Yiqun Lei, Zeling Cai, Xiao...

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[Peroxisome 1 silencing inhibited the growth and ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6208491>

Oct 26, 2018 · Asano et al reported that the **PI3K/AKT pathway** is significantly active in **pancreatic cancer cells**. 11 Activation of the **PI3K/AKT pathway** may result in increased tumor **cell proliferation** and the inhibition of tumor **cell apoptosis**. 12, 13 AKT plays an important role in **cell** viability and **proliferation**. 12, 13 PI3K triggers production of ...

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Author: Xianchun Sun, Lingting Kong, Bingshu Li,...

Publish Year: 2018

[Long noncoding RNA SNHG1 promotes cell proliferation ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6072808>

Consequently, these findings suggested that SNHG1 promotes **PDAC cell proliferation, inhibits cell apoptosis and induces cell cycle progression** partially through **activating the PI3K/AKT signaling**