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*Retrospective Study*

**Phosphatidylinositol-3,4,5-trisphosphate dependent Rac exchange factor 1 is a diagnostic and prognostic biomarker for hepatocellular carcinoma**

Yi Cai, Qiao Zheng, De-Jiao Yao

**Abstract**

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<https://www.ncbi.nlm.nih.gov/pubmed/32167932>

Mar 13, 2020 · APEX1 is a novel diagnostic and prognostic biomarker for hepatocellular carcinoma. Cao L(1)(2)(3), Cheng H(4), Jiang Q(5), Li H(3), Wu Z(1)(2). Author information: (1)Department of Hepatobiliary Disease, Dongfang Hospital, Xiamen University, Fuzhou, China.

Author: Lei Cao, Lei Cao, Hongwei Cheng, Qi... Publish Year: 2020

## Biomarkers for hepatocellular carcinoma: diagnostic and ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4403743>

Apr 13, 2015 · Introduction. Hepatocellular carcinoma (HCC) represents more than 90% of primary liver cancer, which is the fifth most prevalent cancer in the world and the third leading cause of cancer-related mortality.<sup>1</sup> Unfortunately, HCC development is asymptomatic at early stages of the disease when current curative therapies are available.<sup>2,3</sup> Tests for HCC screening include serological and imaging ...

Cited by: 16

Author: Gustavo Ferrín, Patricia Aguilar-Melero, ...

Publish Year: 2015

## Biomarkers in Hepatocellular Carcinoma: Diagnosis ...

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Hepatocellular carcinoma (HCC) is one of the main cancer-related causes of death worldwide. Thus, there is a constant search for improvement in screening, diagnosis, and treatment strategies to improve the prognosis of this malignancy. The identification of useful biomarkers for surveillance and early HCC diagnosis is still deficient, with available serum biomarkers showing low sensitivity and ...

## Determining consistent prognostic biomarkers of overall ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6304123>

Dec 05, 2018 · Background: Potential prognostic biomarker candidates for hepatocellular carcinoma (HCC) are abundant, but their generalizability is unexplored. We cross-validated markers of overall survival (OS) and vascular invasion in independent datasets. Methods: The literature search yielded 318 genes related to survival and 52 related to vascular invasion. Validation was performed in three ...

Cited by: 29

Author: Otilia Menyhart, Otilia Menyhart, Ádám N...

Publish Year: 2018

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21 Feedback regulation between **phosphatidylinositol-3,4,5-trisphosphate dependent Rac exchange factor 1** and transforming growth **factor**  $\beta$ 1 and **prognostic** value in gastric cancer Shao Q, Chen ZM 35 Abdominal paracentesis drainage ameliorates myocardial injury in severe experimental pancreatitis rats through suppressing oxidative stress

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This results in the initiation of **phosphatidylinositol-3,4,5-trisphosphate dependent rac exchange factor 1/2** (PREX1 and PREX2) and T cell lymphoma invasion and metastasis 1 (TIAM-1) expression, which all contribute to tumour growth [150,151]. Increasing evidence suggests that RAC1 modulates mTOR activity, whereby the binding of RAC1 to mTOR ...

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Author: Fiona H. Tan, Yuchen Bai, Pierre Saintign...

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Mar 30, 2015 · PREX1 (**phosphatidylinositol-3,4,5-trisphosphate-dependent Rac exchange factor**) is highly expressed in prostate cancer, indicating a relationship between the cell invasion and its expression . In melanomas, PREX1 over-expression was connected to the activation of ERK-MAPK signaling and required for efficient melanoblast metastasis as well as for ...

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Sep 10, 2019 · PREX1 as an activator of both AKT and ERK signaling: **Phosphatidylinositol-3,4,5-trisphosphate** (PIP 3)-**dependent Rac exchange factor 1** (PREX1) is a **Rac guanine exchange factor** (GEF) . PREX1 activates both PI3K/AKT and MAPK/ERK signaling ...

Cited by: 8

Author: Zhe Cao, Qianjin Liao, Min Su, Kai Huan...

Publish Year: 2019

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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6523933/> <https://www.sciencedirect.com/science/article/pii/S1936523316302583>