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**Cited by:** 8 **Author:** Areerat Kunanopparat, Ingorn Kimkong, ...  
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### The Role of Autophagy in Hepatocellular Carcinoma

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Increasing studies have indicated the crucial **role** of **autophagy** in liver diseases. The dysregulation of **autophagy** is associated with viral **hepatitis**, non-alcoholic fatty liver disease, alcoholic liver disease, fibrosis, cirrhosis, and **hepatocellular carcinoma (HCC)** [1,12].

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**Publish Year:** 2015

### Autophagy Suppresses Tumorigenesis of Hepatitis B Virus ...

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Feb 01, 2014 · **Autophagy suppresses tumorigenesis of hepatitis B virus-associated hepatocellular carcinoma** through **degradation of microRNA-224**.

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**Publish Year:** 2014

### Autophagy suppresses tumorigenesis of hepatitis B virus ...

<https://aasldpubs.onlinelibrary.wiley.com/doi/10.1002/hep.26659>

**Autophagy suppresses tumorigenesis of hepatitis B virus-associated hepatocellular carcinoma** through **degradation of microRNA-224** Sheng-Hui Lan Institute of **Basic Medical Sciences**, College of Medicine, National Cheng Kung University, Tainan, Taiwan

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Oct 07, 2016 · Keywords: **Autophagy**, **Hepatitis B virus**, **Hepatocellular carcinoma**, **ATG12**, **Apoptosis**, **Cell cycle**, **Notch signaling** Core tip: **ATG5-ATG12 protein** expression was increased in **hepatitis B virus (HBV)**-transfected HepG2.2.15 cells when they were compared with HepG2 cells and was increased in tumor liver tissues compared to adjacent non-tumor tissues ...

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Feb 01, 2014 · **Hepatocellular carcinoma (HCC)** is the fifth most common cancer worldwide and is the leading cause of cancer-related death. Moreover, HCC is often diagnosed at a late stage and the prognosis is poor. 1 Recent studies highlight new molecular mechanisms involved in HCC progression, including **autophagy** and microRNAs (miRNAs). 2 **Autophagy** induced by metabolic stresses is a ...

**Cited by:** 162 **Author:** Sheng Hui Lan, Shan Ying Wu, Roberto Zuc...  
**Publish Year:** 2014

Name of Journal: World Journal of Hepatology

Manuscript NO: 58649

Manuscript Type: LETTERS TO THE EDITOR

Autophagy related protein 9A increase in hepatitis B virus-associated hepatocellular carcinoma and the role in apoptosis

Kimkong I *et al.* ATG9A in HBV-associated hepatocellular carcinoma

Abstract

The majority of hepatocellular carcinoma (HCC) cases are associated with the hepatitis B virus (HBV) infection. Autophagy related protein 9A (ATG9A) is a transmembrane protein required for autophagosome formation. In order to investigate the role of ATG9A in HBV-associated HCC, ATG9A protein was determined in tumor liver tissues and compared with adjacent non-tumor tissues from HCC patients with or without HBV infection. In HBV-associated HCC tissues, ATG9A protein level was increased in tumor

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