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2016 Hepatocellular Carcinoma: Global view

Inhibition of apoptosis by oncogenic hepatitis B virus X protein:
 Implications for the treatment of hepatocellular carcinoma

Chao CCK. HBx prevents apoptosis and promotes chemoresistance

Chuck CKChao

Abstract

Hepatitis B virus X protein (HBx) plays an important role in the development of hepatocellular carcinoma(HCC). In addition, hepatoma upregulated protein (HURP) is a cellular oncogene that is upregulated in a majority of HCC cases. We highlight here recent findings demonstrating a link between

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XW Wang, MK Gibson, W Vermeulen, H Yeh... - Cancer research, 1995 - AACR

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... protein kinase B (PKB)/Akt, are induced by many factors, such as TGF- β , to inhibit apoptosis. ... It induces the degradation of the inhibitor of κ Ba (I κ B) and p105 through phosphorylation of ... 61 Interestingly, NF κ B can also be specifically inhibited by treatment with sulfasalazine or by ...

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P Arbutnot, A Capovilla, M Kew - Journal of gastroenterology ... , 2000 - Wiley Online Library

... showed that apoptosis was inhibited in primary human fibroblasts that were microinjected with vectors expressing ... binding of XAP-1 by HBx was subsequently shown to correlate with inhibition of hepatocyte ... This is suggested by the ability of DDB to inhibit Rb and enhance the ...

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S Murakami - Journal of gastroenterology, 2001 - Springer

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2016年2月14日 - Treatments to inhibit hepatitis B surface antigen (HBsAg) and ... and the X gene encodes hepatitis B x protein (HBx) for virus replication. Additionally, the drug-resistant HBV strains may have mutant surface proteins with oncogenic ... cancer via ER stress-induced apoptosis[124] and mTOR inhibition as a ...

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Keywords: apoptosis/FLIP/hepatitis B virus/HBx protein/TNF- α ... such as chronic hepatic insufficiency, cirrhosis and hepatocellular carcinoma (HCC) (Tiollais The caspase-3 activity is abolished by treatment with the caspase-8 inhibitor of the hepatitis B virus X gene leads to suppression of oncogenic transformation of ...

Hepatitis B virus X protein accelerates the development of hepatoma

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