

CMA Down-regulated the p53 Expression through Degrading HMGB1 Protein 1



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31 Oct 2013 ... Autophagy, an evolutionarily conserved lysosomal **degradation** ... DRAM1 and the **p53** upregulated modulator of **apoptosis** (PUMA) have been ... **HMGB1**, as a novel Beclin-1-binding **protein**, has a key role in ... Moreover, miR-375, normally **downregulated** in HCC when exogenously **expressed**, can **inhibit** ...

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23 Aug 2012 ... In **CMA** the cytosolic ... Autophagy is **induced** in hypoxic regions of tumor cells [8]. ... Moreover, changes in **proteins** regulating **apoptosis** can also lead to a ... Beclin1 mediates **down-regulation** of USP10 and reduces **p53** levels [52]. ... that constitutive **expression** of P-gp in **hepatocellular cancer** cells is.

[High-mobility Group Box 1 \[HMGB1\] and Cancer](http://pubmedcentralcanada.ca/pmc/articles/PMC2818552/)

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High-mobility group box 1 **protein** (**HMGB1**), a chromatin associated nuclear **protein** and ... **HMGB1** provides the optimal DNA structure for **p53** binding **through** its ... a potent **inhibitor** of **HMGB1** release, **inhibits** **hepatic** tumor growth and induces a ... **Down-regulation** of **HMGB1** **expression** results in **apoptosis** in LNCaP ...

[Frontiers | Mechanisms of Therapeutic Resistance in Cancer \(Stem ...](http://journal.frontiersin.org/article/10.3389/fendo.2014.00037/full)

journal.frontiersin.org/article/10.3389/fendo.2014.00037/full

11 Mar 2014 ... In thyroid **cancer**, as in other tumors, such defense strategies ... **prevent** **apoptosis** , and enhance metastasis of chemoresistant tumor cells. ... Suppression of PTTG gene **expression** coincides with an up-regulation of DNA repair **proteins** in ... The influence of **HMGB1** on stem/progenitor cells is mediated via ...

[ultraviolet b-induced apoptosis: Topics by Science.gov](http://www.science.gov/topicpages/ultraviolet+b-induced+apoptosis)

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p51/p63 **Inhibits** ultraviolet B-induced **apoptosis** via Akt activation, ... Hesperidin **downregulated** **expression** of caspase-9, caspase-3, and ... UVB **irradiation** stimulated QPN

Name of Journal: World Journal of Gastroenterology

ESPS Manuscript NO: 32474

Manuscript Type: ORIGINAL ARTICLE

Basic Study

**CMA Down-regulated the p53 Expression through Degrading HMGB1
Protein to Inhibit Irradiation-triggered Apoptosis In Hepatocellular
Carcinoma**

Jing-Hua Wu, Jia-Pei Guo, Jun Shi, Hui Wang, Lei-Lei Li, Bin Guo, Dian-Xing
Liu, Qing Cao, Zhi-Yong Yuan

Abstract

AIM

To investigate the effect of chaperone-mediated autophagy on reduction
irradiation-triggered apoptosis through regulating the p53 protein in

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31 Oct 2013 ... Keywords: autophagy, cancer, oncogene, tumor suppressor, ... DRAM1 and the p53 upregulated modulator of apoptosis (PUMA) ... HMGB1, as a novel Beclin-1- binding protein, has a key role in ..., downregulated in HCC when exogenously expressed, can inhibit ... CMA, chaperone-mediated autophagy.

[High-mobility Group Box 1 \[HMGB1\] and Cancer](#)

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High-mobility group box 1 protein (HMGB1), a chromatin associated nuclear protein ... The expression of HMGB1 is regulated by transcription factors such as p53 [34], ... In pull-down assays, HMGB1 interacts directly with the p50 subunit via its ... HMGB1 is an inhibitor of yeast cell death induced by the pro-apoptotic Bcl-2 ...

[Mechanisms of Therapeutic Resistance in Cancer \(Stem\) Cells with ...](#)

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25 Mar 2014 ... Radiation-induced thyroid tumors are the direct result of ... Suppression of PTTG gene expression coincides with an up-regulation of DNA repair proteins in thyroid ... In the absence of apoptosis, differentiation of PC-C13 cells was inhibited ... The influence of HMGB1 on stem/progenitor cells is mediated via ...

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5 days ago ... Keywords: Hepatocellular carcinoma, Tumor necrosis factor-alpha, apoptosis, ... to current chemotherapies via the dysfunction of signaling pathways ... that HepG2 cell was resistant to TNF α -induced apoptosis as comparing to the ... 309 proteins were with up-regulated and down-regulated expression in ...

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23 Aug 2012 ... In CMA the cytosolic ... Autophagy is induced in hypoxic regions of tumor cells [8]. ... Moreover, changes in proteins regulating apoptosis can also lead to a ... Beclin1

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2013年10月31日 - Keywords: autophagy, **cancer**, oncogene, tumor suppressor, microRNA

HMGB1, as a novel Beclin-1-binding **protein**, has a key role in be p53-mediated tumor **expression** **through** an mTORC1 signaling. Moreover, miR-375, normally **downregulated** in HCC when exogenously expressed, can **inhibit** ...

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