mTOR signaling pathway and mTOR inhibitors in cancer


mTORC2 Signaling Is Necessary for Timely Liver ...

mTORC2 regulates cell metabolism, proliferation and survival. The major substrates for mTORC2 are the AGC family members of kinases, including AKT, S6K, and PR65A. We investigated the functional roles of...
Mammalian target of rapamycin complex 2 (mTORC2) is a major regulator of liver metabolism and tumor development. However, the role of mTORC2 signaling in cholestatic liver injury has not been characterized to date. In this study, we generated liver-specific Rictor knockout mice to block the mTORC2 signaling pathway.

Cited by: 1
Publish Year: 2020

Mammalian Target of Rapamycin Complex 2 Signaling Is ...
www.sciencedirect.com/science/article/pii/S0002944020301474

Mammalian target of rapamycin complex 2 regulates muscle ...
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5509878
Jul 15, 2017: The mammalian target of rapamycin complex 2 (mTORC2), a regulator of insulin
Name of Journal: World Journal of Gastrointestinal Oncology
Manuscript NO: 64949
Manuscript Type: REVIEW

Role of mammalian target of rapamycin complex 2 in primary and secondary liver cancer

Joochle K et al. mTORC2 in liver cancer

Katharina Joochle, Jessica Gernerle, Claus Hellerbrand, Pavel Straud, Thorsten Cramer, Ulf Peter Neumann, Sven Arke Lang
Mammalian Target of Rapamycin Complex 2 Signaling Is ...

Cited by: 1  Author: Yi Zhou, Meng Xu, Pin Liu, Binyong Liang...
Publish Year: 2020

Mammalian target of rapamycin complex 2 (mTORC2) is a major regulator of liver metabolism and tumor development. However, the role of mTORC2 signaling in cholestatic liver injury has not been characterized to date. In this study, we generated liver-specific Rictor knockout mice to block the mTORC2 signaling pathway. Mice were treated with 3,5-diethoxycarbonyl-1,4-dihydrocollidine (DDC) to induce cholestatic liver injury.


Role of the Mammalian Target of Rapamycin Pathway in ...
May 11, 2020 - The mammalian target of rapamycin (mTOR) complex is a central regulator of cell growth and metabolism that integrates inputs from amino acids, nutrients, and extracellular signals. The mTOR protein is incorporated into two distinct complexes: mTOR complex 1 (mTORC1) and mTOR complex 2 (mTORC2).

Cited by: 17  Author: Xinjun Lu, Xinjun Lu, Panagiotis Palogiann... Publish Year: 2021

The Role of Hypothalamic Mammalian Target of Rapamycin ...
https://www.jneurosci.org/content/28/28/7202
Jul 09, 2008 - The mammalian target of rapamycin (mTOR) is an atypical serine/threonine kinase, whose activity affects several physiological functions (Vuilschleger et al., 2006) including CNS regulation of energy balance (Cota et al., 2008; Ropelle et al., 2008). mTOR exists in two complexes (mTORC1 and mTORC2), which are distinguished by sensitivity to rapamycin and by the association of the mTOR...