

Knockdown of STAT3 Expression by RNAi Induces Apoptosis in Astrocytoma Cells



Astrocytomas are the most common type of primary central nervous system tumors. They are frequently associated with genetic mutations that deregulate cell cycle and render these tumors resistant to apoptosis. STAT3, signal transducer and activator of transcription 3, participates in several human cancers by inducing cell proliferation and inhibiting apoptosis and is frequently activated in astrocytomas. These results show that STAT3 is required for the survival of some astrocytomas. These studies suggest STAT3 siRNA could be a useful therapeutic agent for the treatment of astrocytomas. Proceeds from the sale of this book go to the support of an elderly disabled person.

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Knockdown of survivin gene expression by RNAi induces apoptosis pSilencer2.1-U6-siRNA-stat3-3 can significantly inhibit the STAT3 expression in human ovarian cancer cells expression and induce apoptosis of cancer cells. **Immunotherapy, An Issue of Neurosurgery Clinics - E-Book - Google Books Result** Knockdown of STAT3 expression by RNAi induces apoptosis in consistent with apoptosis in several astrocytoma cell lines, but not in primary **Knockdown of STAT3 Expression by RNA - Cancer Research** Targeting Stat3 with Gquartet oligodeoxynucleotides in human cancer cells. Knockdown of STAT3 expression by RNAi induces apoptosis in astrocytoma cells. **Knockdown of STAT3 expression by RNAi induces apoptosis in** However, the proliferation rate of cells in Stat3 knockdown cells was similar to (RNAi) in human neuron tumor cells induces apoptosis (5). Although. Stat3 is .. STAT3 knockdown in astrocytoma cells (5), and in human breast and ovarian **Chronic Inflammation: Molecular Pathophysiology, Nutritional and - Google Books Result** BMC Cancer. 2003 Sep 173:23. Knockdown of STAT3 expression by RNAi induces apoptosis in astrocytoma cells. Konnikova L(1), Kotecki M, Kruger MM, **STAT3 knockdown by siRNA induces apoptosis in human** Knockdown of STAT3 expression by RNAi induces apoptosis in astrocytoma cells. Liza Konnikova, Maciej Kotecki, Mathew M Kruger and **Research article STAT3 KNOCKDOWN BY siRNA INDUCES** Specific knockdown of STAT3 expression in Hut78 cells by RNA interference induced morphological and biochemical changes indicating apoptotic cell death. **Knockdown of STAT3 expression by RNAi induces apoptosis in Natural Compounds and Their Role in Apoptotic Cell Signaling Pathways - Google Books Result** Recent studies have revealed that knockdown of signal transducers 3 (STAT3) expression by RNAi induces apoptosis in astrocytoma cell. **Knockdown of STAT3 expression by RNAi induces apoptosis in** Knockdown of STAT3 expression by RNAi

induces apoptosis in astrocytoma cells. BMC Cancer 3: 23. 213. Ivanov, V.N. et al. 2001. Cooperation between STAT3

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Inhibition of STAT3 Reduces Astrocytoma Cell Invasion and Our studies show that knockdown of STAT3 expression by siRNA reduced expression of .. pRNAi-STAT3 induces apoptosis in breast cancer cells . Recent reports indicate Stat3 siRNA can induce apoptosis in astrocytomas and human

Knockdown of STAT3 by siRNA in primary human astrocytes

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STAT3 as a target for inducing apoptosis in solid and hematological MicroRNA regulation of cell lineages in mouse and human embryonic stem cells. Knockdown of STAT3 expression by RNAi induces apoptosis in astrocytoma