

عنوان مقاله:

Trans-Protein Facilitates Apoptosis Entrance in to human Breast Carcinoma cell lines (SKBR-3, MCF-7, ZR-75, BT-474)

محل انتشار:

نهمین کنگره بین المللی سرطان پستان (سال: 1392)

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خلاصه مقاله:

Apoptin is a protein from Chicken Anemia Virus that could induce apoptosis specifically in the cancer cells but it has not any effect in the normal cells. The Trans Protein Sequence could be manipulated to deliver genetic cassettes into eukaryotic cells and express the gene safely. We developed the safe way for the expression of Apoptin gene Trans Protein Sequence in the human tumors. At first the Apoptin clone was produced and then transferred into trans protein sequence (the sequence is GWTLNSAGYLLGKINLKALAALAKKIL). The expression of Apoptin in the recombinant construct was evaluated via RT-PCR and Western Blot analysis. The anti tumor function of expressed protein was measured in the BT-474 cells that was hosted by nude mice and also in SKBR-3, MCF-7 and ZR-75. Transfection of breast carcinoma cells apoptin conjugated trans protein sequence was inhibited the tumor growth significantly but did not any effect on normal cells. The expression of this protein was very high in tumor cells and prevented the death of tumor bearing nude mice. The penetration and spreading of Apoptin construct by Trans Protein Sequence was significantly high but the Apoptin plasmid had very little expression in BT-474 cell, directly. Utilization of recombinant apoptin Conjugated Trans Protein Sequence as a safe expression vector was confirmed. Apoptin was induced .apoptosis specifically in the tumors in vivo. Use of such construct is a very safe way to treat cancer in human

کلمات کلیدی:

Trans Protein Sequence, Apoptin, Delivery, Tumor, Nude mice

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