

188 Re 标记DTPA-DG对肺癌A549 细胞增殖的影响

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Influence of ¹⁸⁸ Re-DTPA-DG on Proliferation of Pulmonary Carcinoma Cells

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摘要 目的 研究不同浓度¹⁸⁸ Re-DTPA-DG (¹⁸⁸ Re标记二乙三胺五乙酸-葡糖胺) 对人肺癌细胞A549增殖的影响, 探讨其作用机制。方法 将人肺癌细胞A549分成3组, 实验组 (¹⁸⁸ Re-DTPA-DG组)、对照组 (¹⁸⁸ ReO₄淋洗液、缓冲液及等量的DTPA—DG) 及生理盐水组(含生理盐水及等量缓冲液), 前两组均设三种不同浓度, 148、296、444MBq / L。观察细胞形态, 采用四氮唑盐比色法(MTT法)评价¹⁸⁸ Re-DTPA-DG对癌细胞A549增殖的影响。结果¹⁸⁸ Re-DTPA-DG导致的细胞损伤比¹⁸⁸ ReO₄明显; 随着药物浓度增加¹⁸⁸ Re-DTPA-DG导致的损伤越显著。结论¹⁸⁸ Re-DTPA-DG对肿瘤细胞增殖有较明显的抑制效应, 其机制可能是由于¹⁸⁸ Re-DTPA-DG进入到细胞内, 其辐射效应更能导致肺癌细胞损伤。

关键词: ¹⁸⁸ Re-DTPA-DG 人肺癌细胞(A549) 细胞增殖 MTT 比色法

Abstract: Objective To investigate the influence of ¹⁸⁸ Re-DTPA-DG on human pulmonary carcinoma cell line and elucidate its possible mechanism. Methods A549 cells were cultured, they were divided into 3groups, namely, ¹⁸⁸ Re-DTPA-DG,control , saline group ,and the former two groups were divided into 3 groups respectively by 3 different concenrations (148 、296 、444MBq/ L),then they were acted on respectively through a night . Cell growth was assessed with MTT before the appearance of the cells was

watched with microscope. Results The ability of growth was inhibited in about 16 hours ,and the inhibiting ratio was higher in ¹⁸⁸ Re-DTPA-DG group than in control group (P < 0. 001) . In ¹⁸⁸ Re-DTPA-DG group ,when there is a higher concenration , the inhibiting ratio also becomes higher ;while in ¹⁸⁸ ReO₄ group ,it does not . Conclusion The influence of ¹⁸⁸ Re-DTPA-D Gis superior to ¹⁸⁸ ReO₄ on human pulmonary carcinoma cells ,which may contribute to the mechanism that ¹⁸⁸ Re-DTPA-DG can be involved in tumor cells while ¹⁸⁸ ReO₄ can not ,and the cell injury extent occurred by them is different .

Key words: ¹⁸⁸ Re-DTPA-DG Human Pulmonary Carcinoma Cell (A549) Cell Proliferation MTT Chromatometry

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