RIPK3在皮肤基底细胞癌中的表达及意义

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Title: The expression and significance of RIPK3 in skin basal cell carcinoma

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关键词: 皮肤基底细胞癌; RIPK3; 免疫组化; 细胞凋亡

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摘要: 目的：研究RIPK3在皮肤基底细胞癌中的表达及意义。方法：应用免疫组化SP法检测皮肤基底细胞癌和正常皮肤组织中RIPK3蛋白的表达情况。用RIPK3特异性siRNA干扰RIPK3在原代表皮角质形成细胞HEKa中的表达，用Annexin V-FITC/PI双染法检测细胞凋亡的变化。结果：在所收集的正常皮肤组织中，RIPK3的阳性表达率为90.0%，而在皮肤基底细胞癌皮损中其表达呈明显下降，阳性率为7.5%，两组RIPK3蛋白的阳性表达率及表达强度的差异均具有统计学意义（P<0.001）。HEKa细胞特异性敲低RIPK3表达后细胞凋亡数量减少。结论：RIPK3在皮肤基底细胞癌中的表达显著低于正常皮肤组织，RIPK3在皮肤基底细胞癌中的异常表达可能是通过抑制细胞程序性死亡而在其发生发展过程中起作用。

Abstract: Objective：To investigate the expression and significance of RIPK3 protein in the skin basal cell carcinoma（BCC）.Methods：The SP method of immunohistochemistry was carried out to detect the expression of RIPK3 protein in BCC and normal skin tissue.RIPK3-specific siRNA was used to interfere with the expression of RIPK3 in the primary keratinocytes HEKa，and cell apoptosis was detected by Annexin V-FITC/PI staining flow cytometry.Results：In the normal skin，the positive expression rate of RIPK3 protein was 90.0%，while the expression of RIPK3 protein was significantly decreased in the skin basal cell carcinoma and the positive rate was 7.5%.The difference in positive expression rate and expression intensity of RIPK3 protein between the two groups was statistically significant (P<0.001).The number of apoptosis cells was decreased when expression of RIPK3 was specifically knocked down in HEKa cells.Conclusion：The expression of RIPK3 protein in skin basal cell carcinoma is significantly lower than that in normal skin tissue.The abnormal expression of RIPK3 in skin basal cell carcinoma may play a role in the development and progression by inhibiting programmed cell death.

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