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## Rac1蛋白在卵巢癌组织中的表达及其对卵巢癌细胞株SKOV3增殖及迁移的作用(PDF)

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Title: Rac1 expression in ovarian cancer tissues and its role in malignant proliferation and migration of ovarian cancer cell SKOV3

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摘要: 目的 研究Rac1蛋白在人卵巢浆液性腺癌组织中的表达及其对卵巢癌细胞株SKOV3恶性增殖和迁移的影响。 方法 Western blot检测人卵巢浆液性腺癌组织、卵巢良性浆液性囊腺瘤组织及卵巢正常组织中Rac1蛋白的表达水平;构建Rac1表达缺失的细胞株SKOV3-Rac1i;分别用细胞划痕实验、MTT及平板克隆实验检测SKOV3-Rac1i细胞迁移能力、细胞增殖及克隆形成能力。 结果 卵巢浆液性腺癌组织中Rac1蛋白表达水平显著高于卵巢良性浆液性囊腺瘤组织[(0.89±0.17) vs (0.69±0.24),  $P<0.05$ ]和卵巢正常组织[(0.89±0.17) vs (0.72±0.12),  $P<0.05$ ];与亲代细胞相比,SKOV3-Rac1i细胞表现出迁移能力减弱( $P<0.05$ )和增殖能力明显受限( $P<0.05$ )。 结论 Rac1在人卵

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巢浆液性腺癌组织中呈高表达，其可能是通过影响细胞迁移能力及细胞的增殖而促进卵巢癌细胞的恶性生物行为。

**Abstract:** **Objective** To observe the expression of Rac1 in human ovarian serous adenocarcinoma tissues and its role in the malignant proliferation and migration of ovarian cancer cell SKOV3.

**Methods** Western blotting was applied to detect the expression of Rac1 protein in ovarian serous adenocarcinoma tissues, benign ovarian serous cystadenoma tissues and normal ovarian tissues. Stable Rac1-silencing SKOV3 cells were constructed and named as SKOV3-Rac1i. Wound healing assay was conducted to evaluate the ability of the cell migration, and MTT assay and plate clone assay were performed to detect the proliferation rate of SKOV3-Rac1i cells. **Results** The

expression level of Rac1 protein was significantly higher in human ovarian serous adenocarcinoma tissues than in benign ovarian serous cystadenoma tissues ( $0.89 \pm 0.17$  vs  $0.69 \pm 0.24$ ,  $P < 0.05$ ) and normal ovarian tissues ( $0.89 \pm 0.17$  vs  $0.72 \pm 0.12$ ,  $P < 0.05$ ). Moreover, suppressed migration and proliferation were observed in SKOV3-