

检测研究

人绒毛癌细胞JEG_3和人卵巢畸胎瘤细胞PA_1染色体着丝粒点变异的研究

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摘要 背景与目的: 探讨染色体着丝粒点(Cd)的变异与人绒毛癌细胞JEG_3和人卵巢畸胎瘤细胞PA_1染色体非整倍性畸变的关系。材料与方法: 肿瘤细胞株传代后用常规方法制备染色体, 用直接法制备胚胎绒毛细胞染色体标本, 采用Cd_NOR同步银染分析技术研究JEG_3细胞和PA_1细胞染色体Cd的变异。结果: JEG_3细胞染色体Cd缺失率为1.43%、Cd迟滞复制率为0.21%、小Cd率为1.52%、Cd_NOR融合率为1.16%、与正常人胚胎绒毛细胞染色体Cd相比较, JEG_3细胞染色体Cd缺失、Cd_NOR融合率显著升高 ($P<0.0125$), 而与小Cd、Cd迟滞复制率间差异无统计学意义($P>0.0125$)。PA_1细胞染色体Cd缺失率为1.22%、Cd迟滞复制率为0.95%、小Cd率为1.81%、Cd_NOR融合率为1.03%、与正常人胚胎绒毛细胞染色体Cd相比较, PA_1细胞染色体Cd缺失率、Cd迟滞复制率、Cd_NOR融合率均显著升高($P<0.0125$), 而与小Cd的差异无统计学意义($P>0.0125$)。结论: JEG_3细胞染色体非整倍性畸变可能主要与Cd缺失、Cd_NOR融合有关; PA_1细胞染色体非整倍性畸变可能主要与Cd缺失、Cd迟滞复制和Cd_NOR融合有关。

关键词 [肿瘤细胞](#); [着丝粒点](#); [非整倍性畸变](#)

Study on Centromeric Dots Variation in JEG_3 Cells and PA_1 Cells

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Abstract BACKGROUND AND AIM: To study the relation between the centromeric dots (Cd) variation in JEG_3 cells and PA_1 cells and the chromosome aneuploidy aberration. MATERIALS AND METHODS: Chromosome of tumor cells were prepared with conventional method, chromosome of normal embryonic villi were treated directly. A Cd_NOR in phase silver dye analysis technique modified by this laboratory was used to study centromeric dots(Cd) variation of JEG_3 cells and PA_1 cells. RESULTS: Frequency of Cd loss in JEG_3 cells was 1.43%, frequency of Cd duplication delay was 0.21%, frequency of small Cd was 1.52% and that of Cd_NOR fusion was 1.16%. Frequencies of Cd loss and Cd_NOR fusion in JEG_3 cells were significantly higher than those of normal embryonic villi ($P<0.0125$). Frequency of Cd duplication delay and small Cd showed no difference between JEG_3 cells and normal embryonic villi cells. Frequency of Cd loss in PA_1 cells was 1.22%, of Cd duplication delay was 0.95%, of small Cd was 1.81%, and that of Cd_NOR fusion was 1.03%. Frequencies of Cd loss, Cd duplication delay and Cd_NOR fusion in PA_1 cells were significantly higher than those of normal embryonic villi cells ($P<0.0125$). Frequency of small Cd showed no difference between PA_1 cells and normal embryonic villi. CONCLUSION: Cd loss and Cd_NOR fusion might be related with aneuploidy aberration of JEG_3 cells. Cd loss, Cd duplication delay and Cd_NOR fusion might be related with aneuploidy aberration of PA_1 cells.

Keywords [tumor cells](#); [centromeric dots](#); [aneuploidy aberration](#)

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