

Expression and significance of clusterin in Anip973/NVB cell lines

Wei LIU, Li CAI, Jinfeng NING, Dandan LI

摘要

Background and objective To detect clusterin expression in Anip973/Navelbine (Anip973/NVB) and wild type Anip973, the last one as a control, so as to conform that clusterin be association with the resistance to NVB of NSCLC. We detect the expression of clusterin, p53 and Bax in normal lung tissues and cancer tissues so that to investigate its relationship with lung cancer formation and development. **Methods** Western blot was used to compare the differences in protein levels of clusterin in Anip973/NVB and wild type Anip973 cell lines; Flow cytometry was used to detect the clusterin positive rate, to analyze the relationship between clusterin and cell cycle, p53 or Bax. **Results** The expression levels of clusterin and p53 in non-small cell lung cancer were significantly higher in Anip973/NVB, than wild type Anip973. It indicated that clusterin might be associated with resistance to NVB in NSCLC. As to drug resistant lung cancer cell lines, Anip973/NVB was more cells in G0-G1 stage while less cells in S stage or G2-M stage than non-resistant cell line. **Conclusion** The expression levels of clusterin were higher in drug-resistant NSCLC cell lines indicating that clusterin be associated with resistance to NVB in NSCLC.

关键词

Lung neoplasms; Clusterin; Navelbine; p53 gene

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ABOUT THE AUTHORS

Wei LIU

Li CAI

Jinfeng NING

Dandan LI



