

人肺癌细胞系HB-99的建立及其生物学特征 Establishment and Characterization of Human Lung Carcinoma Cell Line HB-99

黄昀1, 吴焱1, 杨焕杰1, 张临友2, 傅松滨1, 刘权章1 HUANG Yun1, WU Yan1, YANG Huan-jie1, ZHANG Lin-you2, FU Song-bin2, LIU Quan-zhang1

1.哈尔滨医科大学医学遗传学教研室, 哈尔滨 150086; 2.哈尔滨医科大学附属第二医院胸外科, 哈尔滨 150086 1.Laboratory of Medical Genetics, Harbin Medical University, Harbin 150086, China; 2.Department of Thoracic Surgery, The Second Affiliated Hospital, Harbin Medical University, Harbin 150086, China

收稿日期 修回日期 网络版发布日期 接受日期

摘要 利用一例肺鳞癌手术标本通过原代培养建立了肺癌细胞系命名为HB-99。该细胞系呈单层贴壁生长, 从相差显微镜和电镜分析具有细胞的多形性, 细胞倍增时间为24小时, 克隆形成率40%, 染色体改变复杂, 众数63-65。将细胞移植到裸鼠体内而生长的肿块具有与原始病人手术标本相似的组织形态。免疫组织化学分析, 近100%的细胞表达角蛋白17 (CK17), 10%的细胞表达波形蛋白 (vimentin)。根据该细胞系的生物学特征提示HB-99是一新建立的肺鳞癌细胞系。

Abstract: We have established a human lung squamous carcinoma cell line, designed HB-99, by culturing primary tumor sample. The cells of HB-99 derived from resected specimen of a male patient with lung squamous cancer. They grew in monolayers and showed cellular morphology by phase contrast and electronic microscopy. The HB-99 cells had a doubling time of 24 hours and a cloning efficiency of 40%. Chromosomal analysis showed complicated rearrangements with a modal number of 63~65. When hetero-transplanted to nude mice, HB-99 grew to form tumor with the same morphology as the original one from the patient. The results of immunohistochemistry suggested that CK17 expressed in almost all cells while only 5%~10% cells had Vimentin. HB-99 is really a newly established cell line of lung squamous carcinoma.

关键词 [肺癌](#) [细胞系](#) [生物学特征](#) **Keywords** [lung carcinoma](#) [cell line](#) [characterization](#)

分类号

扩展功能

本文信息

- ▶ [Supporting info](#)
- ▶ [PDF\(0KB\)](#)
- ▶ [\[HTML全文\]\(0KB\)](#)
- ▶ [参考文献](#)

服务与反馈

- ▶ [把本文推荐给朋友](#)
- ▶ [加入我的书架](#)
- ▶ [加入引用管理器](#)
- ▶ [复制索引](#)
- ▶ [Email Alert](#)
- ▶ [文章反馈](#)
- ▶ [浏览反馈信息](#)

相关信息

- ▶ [本刊中 包含“肺癌”的 相关文章](#)

本文作者相关文章

- [黄昀](#)
- [吴焱](#)
- [杨焕杰](#)
- [张临友](#)
- [傅松滨](#)
- [刘权章HUANG Yun](#)
- [WU Yan](#)
- [YANG Huan-jie](#)
- [ZHANG Lin-you](#)
- [FU Song-bin](#)

Abstract

Key words

DOI:

通讯作者